

DRAFT: gTLD Registration Dataflow Matrix and Information

Summary of Input Received From Contracted Parties and
Interested Stakeholders

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Introduction

ICANN policies and contracts require contracted parties to collect, create, retain, escrow, and publish a variety of data elements related to registry and registrar operations, domain name registrations, and registrants. The ICANN organization is investigating whether there are potential compliance issues under its agreements with registries and registrars because of the European Union General Data Privacy Regulation (GDPR). The starting place for this work is to identify the purposes of the registration data that registries and registrars are required to collect, maintain and provide access to under agreements with ICANN, and to understand which data elements are required for the identified purposes.

At the end of June 2017, ICANN organization asked contracted parties and interested stakeholders to identify user types and purposes of data elements required by ICANN policies and contracts. Individual responses and a compilation of the responses are [published](#) on ICANN's website.

To provide a more user-friendly way to view the responses, ICANN organization has attempted to summarize them in this document and would like to note that there may be future submissions as well. The purposes identified reflect what those submitting the user stories provided and is not an analysis of the submission. ICANN would appreciate any [feedback](#).

Summary of Input

- ⦿ 12 organizations and individuals provided input ([Appendix 1](#))
- ⦿ 97 data elements across ICANN contracts and polities were identified ([Appendix 4](#))
- ⦿ 29 user types were identified ([Appendix 2](#))
- ⦿ 72 purposes were identified ([Appendix 3](#))
- ⦿ Of the 97 data elements ([Appendix 5](#))
 - Registrant e-mail and name are used by the highest number of user types at 28 and 27, respectively
 - More than half of all the data elements are used by at least 10 user types identified
- ⦿ Of the 97 data elements ([Appendix 6](#))
 - Registrant name has the largest number of purposes identified at 45
 - Registrant email, street and phone number have the next largest number of purposes identified at 42 each
 - Creation Date follows closely with 38 purposes identified

User Type: Brand Owner

Data Elements Used	Purpose
Registrant Name Registrant Email Name Server Registrant Street	For regulatory and licensing purposes

Data Elements Used	Purpose
Registrant Phone Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date	
Registry Expiry Date Registrant Name Registrant Email Name Server Registrant Name Registrant Phone Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Name server status	Investigation into fraudulent and inaccurate information

User Type: Business Advisors (ie, Law Firms, Investment Banks, Accounting Firms, etc.)

Data Elements Used	Purpose
Domain Name Updated Date Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date Registrar Registration Expiration Date Registrar Registrar Abuse Contact Email Registrar Abuse Contact Phone Reseller Domain Status Registry Registrant ID Registrant Name Name Server DNSSEC Last update of WHOIS database IP Address	Contact website operator to resolve website issues
Registrant Name	To facilitate domain name acquisition
Registrant Country Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration	Business Due Diligence

Data Elements Used	Purpose
Domain Status Registrant Email	
Registrant Name Registrant Organization Registrant Email Registrant Phone	Business Due Diligence To perform reverse queries for investigations or due diligence Domain Name Portfolio Management
Registrant Street	To perform reverse queries for investigations or due diligence
Registrant City Registrant State/Province Registrant Country Registrant Postal Code Registrar Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date Updated Date Domain Name	Business Due Diligence
Registrant Name Registrant Organization Registrant Email Registrant Phone Registrant Street Registrant City Registrant State/Province Registrant Country Registrant Postal Code Registrar log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date Updated Date Domain Status Tech Email Admin Email	Business Due Diligence To perform reverse queries for investigations or due diligence
Registrant Phone Registrant Street Registrant City Registrant State/Province Registrant Country Registrant Postal Code Registrar log files and,... other records associated	Lender or agent to assess compliance of loans secured by domain names

Data Elements Used	Purpose
with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date Updated Date Domain Status Tech Email Admin Email	

User Type: Certificate Authority (i.e., SSL, etc.)

Data Elements Used	Purpose
Registrant Name Registrant Email Registrant Phone Registrant Street Registrant Email	Certification Services
Registrant Name	To validate domain name ownership for certificate requests Transfer data escrow provider for use in the event of failures
Registrant Street Reseller Registrant Email Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration	To validate domain name ownership for certificate requests

User Type: Consumer Protection Agency

Data Elements Used	Purpose
Last update of WHOIS database	Terror Investigation
All	Terror Investigation To preserve historical information about domain name registrations Investigation into fraudulent and inaccurate information Crime Investigation, (i.e. Identify Leads, etc)

User Type: Consumer/General Public

Data Elements Used	Purpose
Domain Name Registrant Name Registrant Organization Registrant Street Registrant City Registrant State/Province Registrant Postal Code Registrant Country Registrant Phone Registrant Phone Ext Registrant Email Admin Name Admin Organization Admin Street Admin City Admin State/Province Admin Postal Code Admin Country Admin Phone Admin Phone Ext Admin Email	Find out who is operating the website
Registrant Name Registrant Email Registrant Street Registrant Phone Any other registry data that registrar submitted to registry operator	Contact online retailer to resolve issues (i.e. E-Commerce, etc.)
Registrant Name Registrant Street Registrant Email	To assist in identifying domain name registrants
Registrant Name Registrant Organization Registrant Street Registrant City Registrant State/Province Registrant Postal Code Registrant Country Registrant Phone Registrant Phone Ext Registrant Fax Registrant Fax Ext Registrant Email	Find out who is operating the website
All	Contact online retailer to resolve issues (i.e. E-Commerce, etc.)

Data Elements Used	Purpose
	To identify entity to file complaints with the Consumer Protection Agency

User Type: DNS Abuse/Security Researcher

Data Elements Used	Purpose
Domain Name Registrant Name Registrant Organization Registrant Name Registrant Organization Registrant Street Registrant Email Registrant Phone Registrar Primary Contact Name Domain Status	Research/Statistical Analysis
Name Servers Registrant E-mail Address Domain Registration Date Domain Renewal Date Domain Status Registrant Name Registrant E-mail Address Registrant Phone Number Registrant Address	Reputation Services
Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration	To Identify domains that may be compromised or used for DNS abuse
All	To identify potential bad actors or DNS abuse To create proprietary algorithm in order to identify sites with high probability of being malicious Gather potential evidence to be used in court cases or lawsuits
Registrar	To take down and malicious host mitigation

User Type: Domain Administrator

Data Elements Used	Purpose
Name Server	Domain Name Maintenance, (i.e.

Data Elements Used	Purpose
<p>Log files, billing records and, ... other records containing communications source and destination information, including, depending on the method of transmission and without limitation: (1) Source IP address, HTTP headers, (2) the telephone, text, or fax number; and (3) email address, Skype handle, or instant messaging identifier, associated with communications between Registrar and the registrant about the Registration</p> <p>Domain Status</p> <p>Log files and, ... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration</p> <p>Registrar Registration Expiration Date</p> <p>Admin Email</p> <p>Name Server</p> <p>DNSSEC</p>	<p>Deletions, DNS Changes, Renewals, Transfer Domains, etc.)</p>
<p>Registrant Name</p> <p>Registrant Street</p> <p>Registrant Email</p> <p>Log files and, ... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration</p>	<p>To validate domain name ownership for certificate requests</p>
<p>Registrant Name</p> <p>Tech Fax Ext</p> <p>Tech Email</p> <p>Billing Contact Name</p>	<p>To perform reverse queries for investigations or due diligence</p>
<p>Name Server</p>	<p>To verify name server platform for a domain name</p>
<p>Any other registry data that registrar submitted to registry operator</p> <p>Domain Status</p> <p>Log files and, ... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration</p> <p>Registry Expiry Date</p> <p>Admin Email</p> <p>Name Server</p> <p>Domain Name</p>	<p>To facilitate transfers of domain names</p>

Data Elements Used	Purpose
Registrant Name Registrant Street Registrant Email Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration	To assist in identifying domain name registrants
Registrant Name Registrant Street Registrant Email Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration	To perform reverse queries for investigations or due diligence

User Type: Domain Name Billing Administrator

Data Elements Used	Purpose
Domain Status Domain Name Registrant Name Registrant Street	Domain Name Maintenance, (i.e. Deletions, DNS Changes, Renewals, Transfer Domains, etc.)

User Type: Government Agency

Data Elements Used	Purpose
Domain Name	Investigation into fraudulent and inaccurate information For investigation and enforcement purposes against registrants who are infringing on Intellectual Property (IP) rights
Registrar WHOIS Server	To query for WHOIS information if the information is not available via the command line domain Whois
Registrar URL	To find alternative forms of contact for the registrar if they are unresponsive
Updated Date Registry Expiry Date IP Address	Abuse Investigation
Updated Date	Investigation into fraudulent and inaccurate information

Data Elements Used	Purpose
Registry Expiry Date	To determine domain age
Registrar	To notify the appropriate registrar and/or run searches from collected domain WHOIS information for a particular registrar (e.g., how many times we have observed a particular registrar)
Registrar Abuse Contact Email	To notify registrar about reported abuse
Reseller	To notify reseller about reported abuse
Domain Status	Domain Name Maintenance, (i.e. Deletions, DNS Changes, Renewals, Transfer Domains, etc.)
Registrant Name Registrant Email Admin Name Tech ID Name Server Billing Contact Name	Investigation into fraudulent and inaccurate information
DNSSEC	Security Protocols
Registrar WHOIS Server	To check the accuracy of the WHOIS data

User Type: ICANN Contractual Compliance

Data Elements Used	Purpose
Registrant Name Registrant Street Registrant Email Registrant Email Name Server Domain Status Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Updated Date Registry Expiry Date	Contractual Compliance for ICANN Agreements

User Type: Individual Internet User

Data Elements Used	Purpose
Registrant Name Registrant Organization Registrant Email Registrant Phone Number Registrant Street	Contact online retailer to resolve issues (i.e. E-Commerce, etc.) Business Due Diligence

Data Elements Used	Purpose
Registrant City Registrant State/Province Registrant Country Registrant Postal Code	
Registrant Name Admin Organization Registrant Street Registrant City Registrant State/Province Registrant Postal Code Registrant Country Registrant Phone Registrant Phone Ext Registrant Fax Registrant Fax Ext Registrant Email Domain Name Registrant Organization Registry Expiry Date	Investigation into fraudulent and inaccurate information Crime Investigation, (i.e. Identify Leads, etc)

User Type: Intellectual Property Rights Holder, Investigator or Agent Representing Rights Holder (ie. Trademark owner, Copywriter Owner, etc)

Data Elements Used	Purpose
Registrant Name	For investigation and enforcement purposes against registrants who are infringing on Intellectual Property (IP) rights To use in court orders Registration Validation and Verification (i.e. Nexus Requirements)
Registrant Organization	For investigation and enforcement purposes against registrants who are infringing on Intellectual Property (IP) rights
Log files and, ... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration	For investigation and enforcement purposes against registrants who are infringing on Intellectual Property (IP) rights To use in court orders
Domain Name	

Data Elements Used	Purpose
IP Address Name Server Registrar Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date Updated Date Domain Status Last update of WHOIS database Registry Expiry Date Registrant Name Registrant Organization Registrant Email Registrant Phone Registrant Street Registrant City Registrant State/Province Registrant Country Registrant Postal Code Registrar Abuse Contact Email Registrar Abuse Contact Phone Reseller Tech Email Admin Email IP Address	For investigation and enforcement purposes against registrants who are infringing on Intellectual Property (IP) rights Investigation into fraudulent and inaccurate information To preserve historical information about domain name registrations To perform reverse queries for investigations or due diligence
Domain Name	To assist in identifying domain name registrants For investigation and enforcement purposes against registrants who are infringing on Intellectual Property (IP) rights To help confirm (or disprove) a third-party's date of first use/priority date while conducting trademark clearance (risk analysis) when establishing new brands Domain Name Maintenance, (i.e. Deletions, DNS Changes, Renewals, Transfer Domains, etc.)
Name Server Registrar Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration	To assist in identifying domain name registrants For investigation and enforcement purposes against registrants who are infringing on Intellectual Property (IP)

Data Elements Used	Purpose
Registry Expiry Date Updated Date Domain Name Domain Status Registry Expiry Date Registrant Name Registrant Organization Registrant Email Registrant Phone Registrant Street Registrant City Registrant State/Province Registrant Country Registrant Postal Code Registrar Abuse Contact Email Registrar Abuse Contact Phone Reseller Tech Email	rights To help confirm (or disprove) a third-party's date of first use/priority date while conducting trademark clearance (risk analysis) when establishing new brands Domain Name Maintenance, (i.e. Deletions, DNS Changes, Renewals, Transfer Domains, etc.)
IP Address	For investigation and enforcement purposes against registrants who are infringing on Intellectual Property (IP) rights
Name Server	To investigate and enforce copyright infringement
Registrar Log files and, ... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date Updated Date Domain Status Last update of WHOIS database Registry Expiry Date Registrant Name Registrant Organization Registrant Email Registrant Phone Registrant Street Registrant City Registrant State/Province Registrant Country Registrant Postal Code Registrant Email Registrant Phone Reseller Tech Email Admin Email	To determine whether similar domains are owned by the same entity and to track infringing sites that frequently hop domains

Data Elements Used	Purpose
Domain Name IP Address Name Server Registrar Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date Updated Date Domain Status Last update of WHOIS database Registry Expiry Date Registrant Name Registrant Organization Registrant Email Registrant Phone Registrant Street Registrant City Registrant State/Province Registrant Country Registrant Postal Code Registrar Abuse Contact Email Registrar Abuse Contact Phone Reseller Tech Email Admin Email	For investigation and enforcement purposes against registrants who are infringing on Intellectual Property (IP) rights
Domain Name IP Address Name Server Registrar Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date Updated Date Domain Status Last update of WHOIS database Registry Expiry Date Registrant Name Registrant Organization Registrant Email Registrant Phone Registrant Street Registrant City Registrant State/Province Registrant Country Registrant Postal Code	To respond to inquiries from third party service providers

Data Elements Used	Purpose
Registrant Email Registrant Phone Reseller Tech Email Admin Email	
Domain Name	In order to evaluate the merits of a claim and the likely effectiveness of administrative and legal options
IP Address Name Server Registrar Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date Updated Date Domain Status Last update of WHOIS database Registry Expiry Date Registrant Name Registrant Organization Registrant Email Registrant Phone Registrant Street Registrant City Registrant State/Province Registrant Country Registrant Postal Code Registrar Abuse Contact Email Registrar Abuse Contact Phone Reseller Tech Email Admin Email	To assist with filing trademark applications
All	For investigation and enforcement purposes against registrants who are infringing on Intellectual Property (IP) rights To identify potential bad actors or DNS abuse
Registrant Name Registrant Street Registrant Email Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration	For investigation and enforcement purposes against registrants who are infringing on Intellectual Property (IP) rights

User Type: Internet Service Provider

Data Elements Used	Purpose
All	To identify potential bad actors or DNS abuse

User Type: Law Enforcement Authority

Data Elements Used	Purpose
Registrant Name Registrant Street Registrant Email Registrant Phone Admin Name Admin Street Admin Email Admin Phone Tech Name Tech Street Tech Email Tech Phone	To identify potential bad actors or DNS abuse Investigate malware incident
Domain Name IP Address Name Server Log files and, ... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Updated Date Registry Expiry Date Domain Status Registrar WHOIS Server Registrar URL Registrant Name Registrant Organization Registrant Street Registrant City Registrant State/Province Registrant Postal Code Registrant Country Registrant Phone Registrant Phone Ext Registrant Fax Registrant Fax Ext Registrant Email Admin Name Tech Name	Crime Investigation, (i.e. Identify Leads, etc)

Data Elements Used	Purpose
<p>Billing Contact Name Information regarding the means and source of payment reasonably necessary for the Registrar to process the Registration transaction, or a transaction number provided by a third party payment processor</p> <p>Log files, billing records and, ... other records containing communications source and destination information, including, depending on the method of transmission and without limitation: (1) Source IP address, HTTP headers, (2) the telephone, text, or fax number; and (3) email address, Skype handle, or instant messaging identifier, associated with communications between Registrar and the registrant about the Registration</p>	
<p>Registrar Registrar Abuse Contact Email Registrar Abuse Contact Phone Reseller</p>	Investigate malware incident
Registrar WHOIS Server	<p>Crime Investigation, (i.e. Identify Leads, etc)</p> <p>To identify proper parties for subpoena to serve legal process</p> <p>To use in search warrant affidavits to support probable cause</p> <p>To use as evidence in court proceedings and trials</p> <p>To develop investigative leads (General Investigation)</p> <p>To perform reverse queries for investigations or due diligence</p> <p>To use as evidence in court proceedings and trials</p> <p>Domain Name Registration Investigation into fraudulent and inaccurate information</p> <p>Terror Investigation</p>
IP Address	Crime Investigation, (i.e. Identify Leads, etc)

Data Elements Used	Purpose
	To use in search warrant affidavits to support probable cause
All	Crime Investigation, (i.e. Identify Leads, etc) Investigation into fraudulent and inaccurate information Investigate malware incident
Registrant Name Admin Email Tech Email Registrant Name Registrant Street Registrant Phone Registrant Email	Investigate malware incident

User Type: Legal Advisor or Investigator

Data Elements Used	Purpose
Domain Name IP Address Name Server Registrar Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date Updated Date Domain Status Last update of WHOIS database Registry expiry Date Registrant Name Registrant Organization Registrant Email Registrant Phone Registrant Street Registrant City Registrant State/Province Registrant Country Registrant Postal Code Registrant Email Registrant Phone Reseller Tech Email	In order to evaluate the merits of a claim and the likely effectiveness of administrative and legal options

Data Elements Used	Purpose
Admin Email	

User Type: Miscreant (ie, Botnet Masters, registering domains for criminal abusive purposes, etc.)

Data Elements Used	Purpose
Registrar Name Server	Domain Name Hijack
Registrant Name Registrant E-mail Address Registrant Phone Number Registrant Address	Mining data for spamming/scamming
Name Server registrars/resellers Registrant Name Registrant E-mail Address Registrant Phone Number Registrant Address Stolen/fraudulent payment credential details Cracked domain management account details – username/password/multi-factor tokens Name Servers Registrars/Resellers Registrant Name Registrant E-mail Address Registrant Phone Number Registrant Address	To create proprietary algorithm in order to identify sites with high probability of being malicious

User Type: Operator of the DNS

Data Elements Used	Purpose
Registrant Email Registrant Phone Domain Name Registrant Name	Business Due Diligence
Registrant Email	To facilitate domain name acquisition

User Type: Potential Registrant, Individual or Business (ie. Individual, Business, Brokers, Third Party, etc)

Data Elements Used	Purpose
Domain Name Registrar Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Billing Contact Address Billing Contact Email Billing Contact Phone Number Domain Name	Determine if domain name is available for registration
Registrant Name Registrant Email Registrant Street Registrant Phone Any other registry data that registrar submitted to registry operator Registrant Name Registrant Email Registrant Street Name Server Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Name server status Registrant Name Registrant Email Registrant Street Name Server Registrant Phone Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Name server status	To facilitate domain name acquisition

User Type: Privacy/Proxy Service Provider

Data Elements Used	Purpose
Registrant Name Registrant Email Registrant Street	To facilitate service providers contacting registrants

User Type: Registrant

Data Elements Used	Purpose
Domain Name Updated Date Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date Registrar Registration Expiration Date Registrar Reseller Domain Status Registrant Name Registrant Organization Registrant Street Registrant City Registrant State/Province Registrant Postal Code Registrant Country Registrant Phone Registrant Phone Ext Registrant Fax Registrant Fax Ext Registrant Email Admin ID Admin Name Admin Organization Admin Street Admin City Admin State/Province Admin Postal Code Admin Country Admin Phone Admin Phone Ext Admin Fax Admin Fax Ext Admin Email Tech ID Tech Name Tech Organization Tech Street Tech City Tech State/Province Tech Postal Code Tech Country	Domain Name Maintenance, (i.e. Deletions, DNS Changes, Renewals, Transfer Domains, etc.)

Data Elements Used	Purpose
Tech Phone Tech Phone Ext Tech Fax Tech Fax Ext Tech Email Name Server DNSSEC Any other registry data that registrar submitted to registry operator Billing Contact Name Domain Name Name Server Name Server Registry Expiry Date Information regarding the means and source of payment reasonably necessary for the Registrar to process the Registration transaction, or a transaction number provided by a third party payment processor Name Server Domain Status Billing Contact Name	
Registrar WHOIS Server Registrar URL Registrar Abuse Contact Email Registrar Abuse Contact Phone Reseller Domain Status Registry Registrant ID Last update of WHOIS database IP Address	To investigate why a domain name is no longer working
Domain Status Domain Name Registrant Name Registrant Street Registrant Phone Registrant Email Tech Name Tech Street Tech Phone Tech Email Registrar Name Server Log files and, ... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date	Domain Name Portfolio Management

User Type: Registrar

Data Elements Used	Purpose
Registrant Phone Registrant Email Registrant Street	To facilitate service providers contacting registrants
Registrant Name Registrant Street Registrant Email Registrant Name Registrant Street Registrant Email	For regulatory licensing purposes

User Type: Registrar Reseller

Data Elements Used	Purpose
Reseller	Reputation Services

User Type: Registry

Data Elements Used	Purpose
Registrant Name Registrant Email Name Server Registrant Name Registrant Phone Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Name server status	For regulatory licensing purposes

User Type: Reputation Service Provider

Data Elements Used	Purpose
All	To provide White-List service for delivery of E-mails by mail box providers

User Type: Tax Authority

Data Elements Used	Purpose
Registrant Name Registrant Street Registrant Email Registrant Name Registrant Street Registrant Email	Investigation into fraudulent and inaccurate information

User Type: Technical Domain Administrator

Data Elements Used	Purpose
Registrant Email Registrant Email Registrant Phone	To facilitate technical issue resolution

User Type: Third Party Whois Providers

Data Elements Used	Purpose
Name Server Domain Status Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Updated Date Registry Expiry Date Registrar	For regulatory licensing purposes

User Type: UDRP Panelist or Service Provider

Data Elements Used	Purpose
Domain Name IP Address Name Server Registrar Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date Updated Date Domain Status	To assist in identifying domain name registrants

Data Elements Used	Purpose
Last update of WHOIS database Registry Expiry Date Registrant Name Registrant Organization Registrant Email Registrant Phone Registrant Street Registrant City Registrant State/Province Registrant Country Registrant Postal Code Registrant Email Registrant Phone Reseller Tech Email Admin Email	
Domain Name Registrant Organization Registrant Organization Registrant Email Registrant Phone Registrant Street Registrant City Registrant State/Province Registrant Country Registrant Postal Code Registrar Log files and,... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration Registry Expiry Date Updated Date Domain Status	To file and prosecute UDRP cases

User Type: Web Hosting/Email Hosting

Data Elements Used	Purpose
All	To identify potential bad actors or DNS abuse

Appendices

Appendix 1: Stakeholders That Provided Input

[ICANN At-Large Advisory Committee \(ALAC\)](#)

[ICANN Business Constituency \(BC\)](#)

[ICANN Contracted Parties House \(CPH\)](#)

[ICANN Intellectual Property Constituency \(IPC\)](#)

[Individual User – Rod Rasmussen](#)

[United States Internal Revenue Service \(IRS\)](#)

[Microsoft](#)

[United States Department of Justice \(DOJ\) / Federal Bureau of Investigation \(FBI\)](#)

[ICANN Governmental Advisory Committee \(GAC\) Public Safety Working Group \(PSWG\)](#)

[Criminal and Consumer Protection Law Enforcement Agency](#)

[EUROPOL, European Cybercrime Centre \(EC3\)](#)

[Individual User – Ayden Férdeline](#)

Appendix 2: User Types

ICANN identified the following 29 user types from the responses provided:

1. Brand Owner
2. Business Advisors (e.g. Law Firms, Investment Banks, Accounting Firms, etc.)
3. Certificate Authority (e.g. SSL, etc.)
4. Consumer Protection Agency
5. Consumer/General Public
6. DNS Abuse/Security Researcher
7. Domain Administrator
8. Domain Name Billing Administrator
9. Government Agency
10. ICANN Contractual Compliance
11. Individual Internet User
12. Intellectual Property Rights Holder, Investigator or Agent Representing Rights Holder (e.g. Trademark owner, Copywriter Owner, etc)
13. Internet Service Provider
14. Law Enforcement Authority
15. Legal Advisor or Investigator
16. Miscreants (e.g Botnet Masters, registering domains for criminal abusive purposes, etc.)
17. Operator of the DNS
18. Potential Registrant, Individual or Business (e.g. Individual, Business, Brokers, Third Party, etc)
19. Privacy/Proxy Service Provider
20. Registrant
21. Registrar
22. Registrar Reseller
23. Registry
24. Reputation Service Provider
25. Tax Authority
26. Technical Domain Administrator
27. Third Party WHOIS Providers
28. UDRP Panelist or Service Provider
29. Web Hosting/Email Hosting

Appendix 3: Purpose Categories

ICANN identified the following 72 purpose categories from the responses provided:

1. Abuse Investigation
2. Business Due Diligence
3. Certification Services
4. Contact online retailer to resolve issues (i.e. E-Commerce, etc.)
5. Contact website operator to resolve website issues
6. Contractual Compliance for ICANN Agreements
7. Crime Investigation, (i.e. Identify Leads, etc.)
8. Customer Support
9. Determine if domain name is available for registration
10. Dispute Resolution (i.e. Ownership Disputes, etc.)
11. Domain Name Hijack
12. Domain Name Maintenance, (i.e. Deletions, DNS Changes, Renewals, Transfer Domains, etc.)
13. Domain Name Portfolio Management
14. Domain Name Registration
15. Find out who is operating the website
16. For investigation and enforcement purposes against registrants who are infringing on Intellectual Property (IP) rights
17. For regulatory licensing purposes
18. Gather potential evidence to be used in court cases or lawsuits
19. In order to evaluate the merits of a claim and the likely effectiveness of administrative and legal options,
20. Investigate malware incident
21. Investigation into fraudulent and inaccurate information
22. Lender or agent to assess compliance of loans secured by domain names
23. Maintain data redundancy records in case of failures
24. Maintain list of additional registrar contacts to serve as additional repository
25. Mining data for spamming/scamming
26. Registration Validation and Verification (i.e. Nexus Requirements)
27. Reputation Services
28. Research/Statistical Analysis
29. Security Protocols
30. Terror Investigation
31. To assist in identifying domain name registrants
32. To assist with filing trademark applications
33. To check the accuracy of the WHOIS data
34. To create proprietary algorithm in order to identify sites with high probability of being malicious
35. To determine domain age
36. To determine whether similar domains are owned by the same entity and to track infringing sites that frequently hop domains
37. To develop investigative leads (General Investigation)
38. To facilitate domain name acquisition
39. To facilitate registrations during Sunrise or Land-Rush periods
40. To facilitate service providers contacting registrants
41. To facilitate technical issue resolution

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42. To facilitate transfers of domain names
 43. To file and prosecute UDRP cases
 44. To file and prosecute URS cases
 45. To find alternative forms of contact for the registrar if they are unresponsive
 46. To help confirm (or disprove) a third-party's date of first use/priority date while conducting trademark clearance (risk analysis) when establishing new brands.
 47. To identify domains that may be compromised or used for DNS abuse
 48. To identify entity to file complaints with the Consumer Protection Agency
 49. To identify potential bad actors or DNS abuse
 50. To identify proper parties for subpoena to serve legal process
 51. To investigate and enforce copyright infringement
 52. To investigate malware incident
 53. To investigate why a domain name is no longer working
 54. To invoice for domain name registrations
 55. To notify registrar about reported abuse
 56. To notify reseller about reported abuse
 57. To notify the appropriate registrar and/or run searches from collected domain WHOIS information for a particular registrar (e.g., how many times we have observed a particular registrar)
 58. To perform reverse queries for investigations or due diligence
 59. To preserve historical information about domain name registrations
 60. To provide information about business updates
 61. To provide information about technical updates
 62. To provide White-List service for delivery of E-mails by mail box providers
 63. To query for WHOIS information if the information is not available via the command line domain WHOIS
 64. To report abusive information to a registrar
 65. To respond to inquiries from third party service providers
 66. To take down and malicious host mitigation
 67. To use as evidence in court proceedings and trials
 68. To use in court orders
 69. To use in search warrant affidavits to support probable cause
 70. To validate domain name ownership for certificate requests
 71. To verify name server platform for a domain name
 72. Transfer data escrow provider for use in the event of failures

Appendix 4: Data Elements and the ICANN Policy/Agreement Requiring Transmission of Data Element

ICANN identified the following 97 categories of data elements from the responses provided:

Potential Personal Data Elements		Policy/Agreement Requiring Collection, Transmission, Publication or Retention of Data Element
	<u>DOMAIN NAME REGISTRATION DATA</u>	
1.	Domain Name	<ul style="list-style-type: none"> ⊙ Add Grace Period Limits Policy ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy ⊙ Transfer Policy ⊙ Uniform Domain Name Dispute Resolution Policy (UDRP)
2.	Registry Domain ID	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
3.	Registrar WHOIS Server	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
4.	Registrar URL	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
5.	Updated Date	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
6.	Creation Date	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
7.	Registry Expiry Date	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification

Potential Personal Data Elements		Policy/Agreement Requiring Collection, Transmission, Publication or Retention of Data Element
		<ul style="list-style-type: none"> ⊙ Thick Whois Policy
8.	Registrar Registration Expiration Date	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
9.	Registrar	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
10.	Registrar IANA ID	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
11.	Registrar Abuse Contact Email	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
12.	Registrar Abuse Contact Phone	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
13.	Reseller	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
14.	Domain Status	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
15.	Registry Registrant ID	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
16.	Registrant Name	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy ⊙ Transfer Policy
17.	Registrant Organization	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy

Potential Personal Data Elements		Policy/Agreement Requiring Collection, Transmission, Publication or Retention of Data Element
		<ul style="list-style-type: none"> ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
18.	Registrant Street	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy ⊙ Transfer Policy
19.	Registrant City	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy ⊙ Transfer Policy
20.	Registrant State/Province	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy ⊙ Transfer Policy
21.	Registrant Postal Code	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy ⊙ Transfer Policy
22.	Registrant Country	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy ⊙ Transfer Policy
23.	Registrant Phone	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
24.	Registrant Phone Ext	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy

Potential Personal Data Elements		Policy/Agreement Requiring Collection, Transmission, Publication or Retention of Data Element
25.	Registrant Fax	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
26.	Registrant Fax Ext	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
27.	Registrant Email	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
28.	Admin ID	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
29.	Admin Name	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
30.	Admin Organization	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
31.	Admin Street	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
32.	Admin City	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
33.	Admin State/Province	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6)

Potential Personal Data Elements		Policy/Agreement Requiring Collection, Transmission, Publication or Retention of Data Element
		<ul style="list-style-type: none"> ⊙ Thick Whois Policy
34.	Admin Postal Code	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
35.	Admin Country	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
36.	Admin Phone	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
37.	Admin Phone Ext	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
38.	Admin Fax	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
39.	Admin Fax Ext	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
40.	Admin Email	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
41.	Tech ID	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy

Potential Personal Data Elements		Policy/Agreement Requiring Collection, Transmission, Publication or Retention of Data Element
42.	Tech Name	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
43.	Tech Organization	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
44.	Tech Street	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
45.	Tech City	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
46.	Tech State/Province	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
47.	Tech Postal Code	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
48.	Tech Country	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
49.	Tech Phone	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
50.	Tech Phone Ext	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy

Potential Personal Data Elements		Policy/Agreement Requiring Collection, Transmission, Publication or Retention of Data Element
		<ul style="list-style-type: none"> ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
51.	Tech Fax	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
52.	Tech Fax Ext	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
53.	Tech Email	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification; Registrar Data Escrow (RAA Sec. 3.6) ⊙ Thick Whois Policy
54.	Name Server	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
55.	DNSSEC	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
56.	Last update of WHOIS database	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement – RDS/Whois Specification ⊙ Thick Whois Policy
57.	IP Address	<ul style="list-style-type: none"> ⊙ Consistent Labeling and Display Policy ⊙ Registry Agreement – RDS/Whois Specification ⊙ Registrar Accreditation Agreement ⊙ Thick Whois Policy
	<u>ADDITIONAL DOMAIN NAME REGISTRATION DATA</u>	
58.	Billing Contact ID	Registry Agreement – Whois Specification (some legacy gTLDs)

Potential Personal Data Elements		Policy/Agreement Requiring Collection, Transmission, Publication or Retention of Data Element
59.	Billing Contact Name	<ul style="list-style-type: none"> ⊙ Registry Agreement – Whois Specification (some legacy gTLDs) ⊙ Registrar Accreditation Agreement – Registrar Data Escrow and Data Retention Specification
60.	Billing Contact Organization	<ul style="list-style-type: none"> ⊙ Registry Agreement – Whois Specification (some legacy gTLDs)
61.	Billing Contact Address	<ul style="list-style-type: none"> ⊙ Registry Agreement – Whois Specification (some legacy gTLDs) ⊙ Registrar Accreditation Agreement – Registrar Data Escrow and Data Retention Specification
62.	Billing Contact City	<ul style="list-style-type: none"> ⊙ Registry Agreement – Whois Specification (some legacy gTLDs) ⊙ Registrar Accreditation Agreement – Registrar Data Escrow and Data Retention Specification
63.	Billing Contact State/Province	<ul style="list-style-type: none"> ⊙ Registry Agreement – Whois Specification (some legacy gTLDs) ⊙ Registrar Accreditation Agreement – Registrar Data Escrow and Data Retention Specification
64.	Billing Contact Postal Code	<ul style="list-style-type: none"> ⊙ Registry Agreement – Whois Specification (some legacy gTLDs) ⊙ Registrar Accreditation Agreement – Registrar Data Escrow and Data Retention Specification
65.	Billing Contact Country	<ul style="list-style-type: none"> ⊙ Registry Agreement – Whois Specification (some legacy gTLDs) ⊙ Registrar Accreditation Agreement – Registrar Data Escrow and Data Retention Specification
66.	Billing Contact Phone Number	<ul style="list-style-type: none"> ⊙ Registry Agreement – Whois Specification (some legacy gTLDs) ⊙ Registrar Accreditation Agreement – Registrar Data Escrow and Data Retention Specification
67.	Billing Contact Phone Number Ext	<ul style="list-style-type: none"> ⊙ Registry Agreement – Whois Specification (some legacy gTLDs) ⊙ Registrar Accreditation Agreement – Registrar Data Escrow and Data Retention Specification
68.	Billing Contact Fax Number	<ul style="list-style-type: none"> ⊙ Registry Agreement – Whois Specification (some legacy gTLDs) ⊙ Registrar Accreditation Agreement – Registrar Data Escrow and Data Retention Specification
69.	Billing Contact Fax Ext	<ul style="list-style-type: none"> ⊙ Registry Agreement – Whois Specification (some legacy gTLDs) ⊙ Registrar Accreditation Agreement – Registrar Data Escrow and Data Retention Specification
70.	Billing Contact Email	<ul style="list-style-type: none"> ⊙ Registry Agreement – Whois Specification (some legacy gTLDs) ⊙ Registrar Accreditation Agreement – Registrar Data Escrow and Data Retention Specification
71.	Maintainer URL	Registry Agreement – Whois Specification (some legacy gTLDs)

Potential Personal Data Elements		Policy/Agreement Requiring Collection, Transmission, Publication or Retention of Data Element
72.	The ENS_AuthId identifying the authorization of the registration	Registry Agreement – Whois Specification (some legacy gTLDs)
73.	Last Transferred Date	Registry Agreement – Whois Specification (some legacy gTLDs)
74.	Name server status	Registry Agreement – Whois Specification (some legacy gTLDs)
TRANSACTION DATA		
75.	Any other registry data that registrar submitted to registry operator	Registrar Accreditation Agreement – Registrar Data Escrow and Data Retention Specification
76.	Types of domain name services purchased for use in connection with the registration	Registrar Accreditation Agreement –Data Retention Specification
77.	“Card on file,” current period third party transaction number, or other recurring payment data	Registrar Accreditation Agreement –Data Retention Specification
78.	Information regarding the means and source of payment reasonably necessary for the Registrar to process the Registration transaction, or a transaction number provided by a third party payment processor	Registrar Accreditation Agreement –Data Retention Specification
79.	Log files, billing records and, ... other records containing communications source and destination information, including, depending on the method of transmission and without limitation: (1) Source IP address, HTTP headers, (2) the telephone, text, or fax number; and (3) email address, Skype handle, or instant messaging identifier, associated with communications between Registrar and the registrant about the Registration	Registrar Accreditation Agreement –Data Retention Specification
80.	Log files and, ... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration	Registrar Accreditation Agreement –Data Retention Specification
81.	Privacy/Proxy Customer contact information	Registrar Accreditation Agreement –Data Escrow
OTHER DATA ELEMENTS		
82.	Transfer Contact Drivers License	Transfer Policy
83.	Transfer Contact Passport	Transfer Policy
84.	Transfer Contact Military ID	Transfer Policy
85.	Transfer Contact State/Government Issued ID	Transfer Policy
86.	Transfer Contact Birth Certificate	Transfer Policy
87.	Registrar Primary Contact Name	Registrar Accreditation Agreement – Registrar Information Specification
88.	Registrar Primary Contact Address	Registrar Accreditation Agreement – Registrar Information Specification

Potential Personal Data Elements		Policy/Agreement Requiring Collection, Transmission, Publication or Retention of Data Element
89.	Registrar Primary Contact Phone Number	Registrar Accreditation Agreement – Registrar Information Specification
90.	Registrar Primary Contact Fax Number	Registrar Accreditation Agreement – Registrar Information Specification
91.	Registrar Primary Contact Email Address	Registrar Accreditation Agreement – Registrar Information Specification
92.	Name and Contact Information of Shareholders with 5% ownership interest in Registrar	Registrar Accreditation Agreement – Registrar Information Specification
93.	Full name, contact information, and position of all directors of the Registrar	Registrar Accreditation Agreement – Registrar Information Specification
94.	Full name, contact information, and position of all officers of the Registrar	Registrar Accreditation Agreement – Registrar Information Specification
95.	Ultimate parent entity of the Registrar, if applicable	Registrar Accreditation Agreement – Registrar Information Specification
96.	List of Registrars' Resellers	Registrar Accreditation Agreement – Registrar Information Specification
97.	Those objects necessary in order to offer all of the approved Registry Services	<ul style="list-style-type: none"> ⦿ Registry Agreement, Specification 2 (Data Escrow) ⦿ Emergency Backend Registry Operator (EBERO)

Appendix 5: Number of User Types per Data Element

DATA ELEMENT LIST		# of User Types
1	Registrant Email	28
2	Registrant Name	27
3	Registrant Street	25
4	Creation Date	24
5	Name Server	23
6	Registrant Phone	23
7	Registry Expiry Date	22
8	Domain Status	17
9	Registrar	16
10	Reseller	16
11	Domain Name	15
12	Registrant Country	15
13	Updated Date	15
14	IP Address	14
15	Registrant City	14
16	Registrant Organization	14
17	Registrant Postal Code	14
18	Registrant State/Province	14
19	Registrar Abuse Contact Email	14
20	Admin Email	13
21	Last Transferred Date	13
22	Last update of WHOIS database	13
23	Log files and, ... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration	13
24	Registrar Abuse Contact Phone	13
25	Tech Email	13
26	DNSSEC	12
27	Any other registry data that registrar submitted to registry operator	11
28	Billing Contact Name	11
29	Name server status	11
30	Admin Name	10
31	Registrant Fax	10
32	Registrant Fax Ext	10
33	Registrant Phone Ext	10
34	Registrar URL	10
35	Registrar WHOIS Server	10
36	Registry Registrant ID	10
37	Tech ID	10
38	Admin City	9
39	Admin Country	9
40	Admin Fax	9
41	Admin Fax Ext	9
42	Admin ID	9

DATA ELEMENT LIST		# of User Types
43	Admin Organization	9
44	Admin Phone	9
45	Admin Phone Ext	9
46	Admin Postal Code	9
47	Admin State/Province	9
48	Admin Street	9
49	Information regarding the means and source of payment reasonably necessary for the Registrar to process the Registration transaction, or a transaction number provided by a third party payment processor	9
50	Registrar Registration Expiration Date	9
51	Tech City	9
52	Tech Country	9
53	Tech Fax	9
54	Tech Fax Ext	9
55	Tech Name	9
56	Tech Organization	9
57	Tech Phone	9
58	Tech Phone Ext	9
59	Tech Postal Code	9
60	Tech State/Province	9
61	Tech Street	9
62	Billing Contact Address	8
63	Billing Contact City	8
64	Billing Contact Country	8
65	Billing Contact Email	8
66	Billing Contact Fax Ext	8
67	Billing Contact Fax Number	8
68	Billing Contact ID	8
69	Billing Contact Organization	8
70	Billing Contact Phone Number	8
71	Billing Contact Phone Number Ext	8
72	Billing Contact Postal Code	8
73	Billing Contact State/Province	8
74	"Card on file," current period third party transaction number, or other recurring payment data	8
75	Full name, contact information, and position of all directors of the Registrar	8
76	Full name, contact information, and position of all officers of the Registrar	8
77	List of Registrars' Resellers	8
78	Log files, billing records and, ... other records containing communications source and destination information, including, depending on the method of transmission and without limitation: (1) Source IP address, HTTP headers, (2) the telephone, text, or fax number; and (3) email address, Skype handle, or instant messaging identifier, associated with communications between Registrar and the registrant about	8

DATA ELEMENT LIST		# of User Types
	the Registration	
79	Maintainer URL	8
80	Name and Contact Information of Shareholders with 5% ownership interest in Registrar	8
81	Privacy/Proxy Customer contact information	8
82	Registrar IANA ID	8
83	Registrar Primary Contact Address	8
84	Registrar Primary Contact Email Address	8
85	Registrar Primary Contact Fax Number	8
86	Registrar Primary Contact Name	8
87	Registrar Primary Contact Phone Number	8
88	Registry Domain ID	8
89	The ENS_AuthId identifying the authorization of the registration	8
90	Those objects necessary in order to offer all of the approved Registry Services	8
91	Transfer Contact Birth Certificate	8
92	Transfer Contact Driver's License	8
93	Transfer Contact Military ID	8
94	Transfer Contact Passport	8
95	Transfer Contact State/Government Issued ID	8
96	Types of domain name services purchased for use in connection with the registration	8
97	Ultimate parent entity of the Registrar, if applicable	8
98	All Data Elements**	8

Appendix 6: Number of User Purposes per Data Element

DATA ELEMENT LIST		# of Purposes
1	Registrant Name	45
2	Registrant Email	42
3	Registrant Phone	42
4	Registrant Street	42
5	Creation Date	38
6	Registry Expiry Date	36
7	Name Server	35
8	Registrant Organization	34
9	Domain Name	33
10	Domain Status	33
11	Registrar	33
12	Reseller	33
13	Updated Date	31
14	Registrant City	30
15	Registrant Country	30
16	Registrant Postal Code	30
17	Registrant State/Province	30
18	Admin Email	29
19	Last update of WHOIS database	27
20	Registrar Abuse Contact Email	27
21	Tech Email	26
22	IP Address	25
23	Registrar Abuse Contact Phone	25
24	Admin Name	21
25	Admin Organization	21
26	Registrant Fax	21
27	Registrar WHOIS Server	21
28	Any other registry data that registrar submitted to registry operator	20
29	Log files and, ... other records associated with the Registration containing dates, times, and time zones of communications and sessions, including initial registration	20
30	Registrar Primary Contact Email Address	20
31	Registrar Primary Contact Name	20
32	Admin Phone	19
33	Admin Street	19
34	DNSSEC	19
35	Full name, contact information, and position of all directors of the Registrar	19
36	Full name, contact information, and position of all officers of the Registrar	19
37	Name and Contact Information of Shareholders with 5% ownership interest in Registrar	19

DATA ELEMENT LIST		# of Purposes
38	Registrar Primary Contact Address	19
39	Registrar Primary Contact Fax Number	19
40	Registrar Primary Contact Phone Number	19
41	Ultimate parent entity of the Registrar, if applicable	19
42	Admin Fax	18
43	Billing Contact Name	18
44	Registrant Phone Ext	18
45	Admin City	17
46	Admin Country	17
47	Admin Phone Ext	17
48	Admin Postal Code	17
49	Admin State/Province	17
50	Information regarding the means and source of payment reasonably necessary for the Registrar to process the Registration transaction, or a transaction number provided by a third party payment processor	17
51	Registrant Fax Ext	17
52	Registrar Registration Expiration Date	17
53	Registry Registrant ID	17
54	Tech Street	17
55	Transfer Contact Birth Certificate	17
56	Transfer Contact Driver's License	17
57	Transfer Contact Military ID	17
58	Transfer Contact Passport	17
59	Transfer Contact State/Government Issued ID	17
60	Admin Fax Ext	16
61	Admin ID	16
62	Billing Contact Address	16
63	Billing Contact Email	16
64	Billing Contact Fax Number	16
65	Billing Contact Phone Number	16
66	Name server status	16
67	Registrar URL	16
68	Tech City	16
69	Tech Country	16
70	Tech Fax	16
71	Tech Fax Ext	16
72	Tech ID	16
73	Tech Name	16
74	Tech Organization	16
75	Tech Phone	16
76	Tech Phone Ext	16
77	Tech Postal Code	16
78	Tech State/Province	16
79	Billing Contact City	15
80	Billing Contact Country	15
81	Billing Contact Fax Ext	15

DATA ELEMENT LIST		# of Purposes
82	Billing Contact ID	15
83	Billing Contact Organization	15
84	Billing Contact Phone Number Ext	15
85	Billing Contact Postal Code	15
86	Billing Contact State/Province	15
87	“Card on file,” current period third party transaction number, or other recurring payment data	15
88	Last Transferred Date	15
89	List of Registrars’ Resellers	15
90	Log files, billing records and, ... other records containing communications source and destination information, including, depending on the method of transmission and without limitation: (1) Source IP address, HTTP headers, (2) the telephone, text, or fax number; and (3) email address, Skype handle, or instant messaging identifier, associated with communications between Registrar and the registrant about the Registration	15
91	Maintainer URL	15
92	Privacy/Proxy Customer contact information	15
93	Registrar IANA ID	15
94	Registry Domain ID	15
95	The ENS_AuthId identifying the authorization of the registration	15
96	Those objects necessary in order to offer all of the approved Registry Services	15
97	Types of domain name services purchased for use in connection with the registration	15
98	All Data Elements**	15

Appendix 7: Purposes Identified in Descending Order of Utilization

#	Purpose Categories	# of Utilization
1	Investigation into fraudulent and inaccurate information	104
2	Domain Name Maintenance, (i.e. Deletions, DNS Changes, Renewals, Transfer Domains, etc.)	95
3	Crime Investigation, (i.e. Identify Leads, etc.)	93
4	For investigation and enforcement purposes against registrants who are infringing on Intellectual Property (IP) rights	80
5	To assist in identifying domain name registrants	54
6	To perform reverse queries for investigations or due diligence	51
7	Business Due Diligence	50
8	Find out who is operating the website	33
9	For regulatory licensing purposes	28
10	To preserve historical information about domain name registrations	26
11	In order to evaluate the merits of a claim and the likely effectiveness of administrative and legal options,	25
12	To respond to inquiries from third party service providers	24
13	To assist with filing trademark applications	23
14	To help confirm (or disprove) a third-party's date of first use/priority date while conducting trademark clearance (risk analysis) when establishing new brands.	23
15	Contact online retailer to resolve issues (i.e. E-Commerce, etc.)	21
16	Customer Support	21
17	Dispute Resolution (i.e. Ownership Disputes, etc.)	21
18	To determine whether similar domains are owned by the same entity and to track infringing sites that frequently hop domains	21
19	To facilitate domain name acquisition	20
20	Domain Name Portfolio Management	18
21	Registration Validation and Verification (i.e. Nexus Requirements)	18
22	To create proprietary algorithm in order to identify sites with high probability of being malicious	17
23	Contact website operator to resolve website issues	16
24	To file and prosecute UDRP cases	15
25	Domain Name Registration	13
26	Lender or agent to assess compliance of loans secured by domain names	13
27	Investigate malware incident	12
28	To investigate malware incident	12
29	Abuse Investigation	11
30	Research/Statistical Analysis	11
31	Maintain list of additional registrar contacts to serve as additional repository	10

#	Purpose Categories	# of Utilization
32	Reputation Services	10
33	To invoice for domain name registrations	10
34	To provide information about business updates	10
35	To provide information about technical updates	10
36	Contractual Compliance for ICANN Agreements	9
37	To facilitate transfers of domain names	9
38	To investigate why a domain name is no longer working	9
39	Terror Investigation	7
40	To facilitate service providers contacting registrants	6
41	To use in court orders	6
42	Certification Services	5
43	To identify potential bad actors or DNS abuse	5
44	Determine if domain name is available for registration	4
45	Mining data for spamming/scamming	4
46	To identify proper parties for subpoena to serve legal process	4
47	To notify the appropriate registrar and/or run searches from collected domain WHOIS information for a particular registrar (e.g., how many times we have observed a particular registrar)	4
48	To validate domain name ownership for certificate requests	4
49	To facilitate technical issue resolution	3
50	To use in search warrant affidavits to support probable cause	3
51	Domain Name Hijack	2
52	To file and prosecute URS cases	2
53	To use as evidence in court proceedings and trials	2
54	Gather potential evidence to be used in court cases or lawsuits	1
55	Maintain data redundancy records in case of failures	1
56	Security Protocols	1
57	To check the accuracy of the WHOIS data	1
58	To determine domain age	1
59	To develop investigative leads (General Investigation)	1
60	To facilitate registrations during Sunrise or Land-Rush periods	1
61	To find alternative forms of contact for the registrar if they are unresponsive	1
62	To Identify domains that may be compromised or used for DNS abuse	1
63	To identify entity to file complaints with the Consumer Protection Agency	1
64	To investigate and enforce copyright infringement	1
65	To notify registrar about reported abuse	1
66	To notify reseller about reported abuse	1
67	To provide White-List service for delivery of E-mails by mail box providers	1
68	To query for WHOIS information if the information is not available via the command line domain Whois	1
69	To report abusive information to a registrar	1
70	To take down and malicious host mitigation	1

#	Purpose Categories	# of Utilization
71	To verify name server platform for a domain name	1
72	Transfer data escrow provider for use in the event of failures	1

Appendix 8: Links to Materials Discussing Purpose of WHOIS and Registration Data

- ⦿ Description of 2013 RAA Data Retention Specification - Data Elements, Legitimate Purposes for Collection/Retention and Recipients of Data (<https://www.icann.org/en/system/files/files/raa-data-retention-elements-10aug15-en.pdf>)
- ⦿ Final Report from the Expert Working Group on gTLD Directory Services: A Next-Generation Registration Directory Service (RDS) – 6 June 2014 (<https://www.icann.org/en/system/files/files/final-report-06jun14-en.pdf>)
- ⦿ GNSO Council Minutes – 12 April 2006 (<https://gns0.icann.org/en/meetings/minutes-gns0-12apr06.html>)
- ⦿ GNSO Council Meeting (Marrakech) – 28 June 2006 (<https://archive.icann.org/en/meetings/marrakech/captioning-gns0-council-28jun06.htm>)
- ⦿ GNSO Policy Development Process on gTLD Registration Data Services – Wiki Page (<https://gns0.icann.org/en/group-activities/active/rds>)
- ⦿ Appendix A of Final Report from the Expert Working Group on Internationalized Registration Data (WHOIS) (<http://whois.icann.org/sites/default/files/files/ird-expert-wg-final-23sep15-en.pdf>)
- ⦿ RFC 7485, Inventory and Analysis of WHOIS Registration Objects (<https://tools.ietf.org/html/rfc7485>)

