



## .INFO Agreement Appendix 5 Whois Specifications (22 August 2013)

Registry Operator will operate a WHOIS service available via port 43 in accordance with RFC 3912, and a web-based Directory Service providing free public query-based access to at least the following elements in the following format. Both services will be provided over both IPv4 and IPv6 transport. In the alternative, Registry Operator may transition, upon notice to ICANN, to the Registration Data Publication Services requirements set forth in Specification 4 to the new gTLD Registry Agreement upon the approval of the new gTLD Registry Agreement by the ICANN Board of Directors.

Registry Operator shall implement a new standard supporting access to domain name registration data (SAC 051) no later than 135 days after it is requested by ICANN if: 1) the IETF produces a standard (i.e., it is published, at least, as a Proposed Standard RFC as specified in RFC 2026); and 2) its implementation is commercially reasonable in the context of the overall operation of the registry.

### **1. Public Whois Specification**

The Whois service substantially consists of two parts:

- Port 43 Whois services
- Web-based Whois services

Registry Operator's Whois service is the authoritative Whois service for all second-level Internet domain names registered in the .INFO top-level domain and for all hosts registered using these names. This service shall be available to anyone. It shall be available via port 43 access and via links at the Registry Operator's web site.

Provisions for the detection of abusive usage of Registry Operator's Whois system (e.g., excessive numbers of queries from one source), and corresponding protective measures, have been implemented, and Registry Operator may implement further countermeasures against abuse as necessary.

Registry Operator's Whois service will be updated on a near real-time basis.

The Whois servers shall provide results in ASCII for standard and IDN .info domains.

The status values reported will be those stated in <http://www.ietf.org/rfc/rfc5731.txt> except

that domains in PendingDelete status will be reported as either PENDING-DELETE (Restorable) or PENDING-DELETE (Scheduled for release) as appropriate.

### **Port 43 Whois service**

1. The format of responses will follow a semi-free text format outline below, preceded by a mandatory disclaimer specifying the rights of Registry Operator, and of the user querying the database.
2. Each data object shall be represented as a set of key/value pairs, with lines beginning with keys, followed by the colon as a delimiter, followed by the value.
3. All Whois data will be in the ASCII character set, which has encoding compatible with UTF-8 for easy transition to including internationalized data, and as per the IETF's recommendations on i18n in Internet protocols. For fields where more than one value exists, multiple key/value pairs with the same key shall be allowed (for example to list multiple name servers). The first key/value pair after a blank line should be considered the start of a new record, and should be considered as identifying that record, and is used to group data, such as hostnames and IP addresses, or a domain name and registrant information, together.
4. All record and key types shall be specified in a publicly available description on the Registry Operator website. The key names and record types should change as infrequently as possible, and only upon the agreement of ICANN and Registry Operator.

### **Web-based Whois service**

Registry Operator will make available a Whois interface on its website which can also be linked to by each ICANN-Accredited Registrar that is a party to a Registry-Registrar Agreement. The information available in the Whois database will be returned as a results page on the website.

### ***Query and Output for Reports Delivered by Web Page and Port 43***

#### ***Whois Queries***

For all Whois queries, the client provides a character string for which information is desired and optionally, the object type and interpretation control parameters to limit the search. Several interpretation controls are defined below to limit searches. If the object type and interpretation control parameters are not specified, Whois searches for the character string in the Name fields of the Domain object. Queries can be made as either an "exact search" or as a "partial search", both of which are insensitive to the case of the input string.

By default, if multiple matches are found for a query, then a summary of all the matching results is presented. A second query is required to retrieve the specific details of one of the matching records.

If only a single match is found, then full details will be provided. Full detail consists of the data in the matching object as well as the data in any associated objects. Additional information and samples of the various types of Whois result records are available in the section below.

### ***Query Controls***

Whois query controls fall into two categories: those that specify the type of field and those that modify the interpretation of the input or determine the type of output to provide.

#### **Object Type Control**

The following keywords restrict a search to a specific object type:

*Domain*: Search only domain objects. The input string is searched in the Name field.

*Host*: Search only name server objects. The input string is searched in the Name field and the IP Address field.

*Contact*: Search only contact objects. The input string is searched in the ID field.

*Registrar*: Search only registrar objects. The input string is searched in the Name field.

By default, if no object type control is specified, then the Name field of the Domain object is searched.

#### **Interpretation Control**

The following keywords modify the interpretation of the input or determine the level of output to provide:

*ID*: Search on ID field of an object. This applies to Contact IDs and Registrar IDs.

*Full or '='*: Always show detailed results, even for multiple matches

*Summary or SUM*: Always show summary results, even for single matches

*'%'*: Used as a suffix on the input, will produce all records that start with that input string

*'\_'*: Used as a suffix on the input, will produce all records that start with that input string and have one and only one additional character

By default, if no interpretation control keywords are used, the output will include full details if a single record is found and a summary if multiple matches are found.

### **Query Examples**

#### **Domain Record**

A Whois query that results in domain information will return the following example fields from the Domain object and the associated data from host and contact objects. This set of data is also referred to as the Domain Record.

### **Registry Whois Outputs**

The following output is an example of a Whois response for a domain record.

*Input:*

WHOISDOMAIN.INFO

-or-

domain WHOISDOMAIN.INFO

*Output:*

Domain ID:D5353344-LRMS  
Domain Name:WHOISDOMAIN.INFO  
Created On:01-Jan-2005 04:00:00 UTC  
Last Updated On:10-Jan-2005 20:25:23 UTC  
Expiration Date:01-Jan-2007 04:00:00 UTC  
Sponsoring Registrar:EXAMPLE REGISTRAR LLC (R63-LRMS)  
Status:DELETE PROHIBITED  
Status:RENEW PROHIBITED  
Status:TRANSFER PROHIBITED  
Status:UPDATE PROHIBITED  
Registrant ID:5372808-ERL  
Registrant Name:EXAMPLE REGISTRAR REGISTRANT  
Registrant Organization:EXAMPLE REGISTRANT ORGANIZATION  
Registrant Street1:123 EXAMPLE STREET  
Registrant City:ANYTOWN  
Registrant State/Province:AP  
Registrant Postal Code:A1A1A1  
Registrant Country:EX  
Registrant Phone:+1.1235551234  
Registrant Email:EMAIL@EXAMPLE.COM  
Admin ID:5372809-ERL  
Admin Name:EXAMPLE REGISTRAR ADMINISTRATIVE  
Admin Organization:EXAMPLE REGISTRANT ORGANIZATION  
Admin Street1:123 EXAMPLE STREET  
Admin City:ANYTOWN  
Admin State/Province:AP  
Admin Postal Code:A1A1A1  
Admin Country:EX

Admin Phone:+1.1235551234  
Admin Email:EMAIL@EXAMPLE.COM  
Billing ID:5372810-ERL  
Billing Name:EXAMPLE REGISTRAR BILLING  
Billing Organization:EXAMPLE REGISTRANT ORGANIZATION  
Billing Street1:123 EXAMPLE STREET  
Billing City:ANYTOWN  
Billing State/Province:AP  
Billing Postal Code:A1A1A1  
Billing Country:EX  
Billing Phone:+1.1235551234  
Billing Email:EMAIL@EXAMPLE.COM  
Tech ID:5372811-ERL  
Tech Name:EXAMPLE REGISTRAR TECHNICAL  
Tech Organization:EXAMPLE REGISTRAR LLC  
Tech Street1:123 EXAMPLE STREET  
Tech City:ANYTOWN  
Tech State/Province:AP  
Tech Postal Code:A1A1A1  
Tech Country:EX  
Tech Phone:+1.1235551234  
Tech Email:EMAIL@EXAMPLE.COM  
Name Server:NS01.EXAMPLEREGISTRAR.INFO  
Name Server:NS02.EXAMPLEREGISTRAR.INFO

### **Nameserver Record**

A Whois query that results in Nameserver information will return the following. This set of information is referred to as the Nameserver Record.

*Input:*

host NS01.EXAMPLEREGISTRAR.INFO

-or-

host 192.168.0.100

*Output:*

Host ID:H123456-LRMS  
Host Name:NS01.EXAMPLEREGISTRAR.INFO  
Sponsoring Registrar:R123-LRMS  
Created On:01-Jan-2005 20:21:50 UTC  
Last Updated On:01-Jan-2005 20:22:58 UTC

IP Address:192.168.0.100

### **Contact Record**

A Whois query that results in contact information will return the following. This set of information is referred to as the Contact Record.

*Input:*

contact CNT-2222

*Output:*

Contact ID:CNT-2222  
Sponsoring Registrar:R1234-LRMS  
Name:EXAMPLE CONTACT  
Organization:EXAMPLE ORGANIZATION LLC  
Street1:123 EXAMPLE STREET  
City:ANYTOWN  
Postal Code:A1A1A1  
Country:EX  
Phone:+1.4443331234  
Email:EMAIL@EXAMPLE.COM  
Created On:01-Jan-2005 14:33:12 UTC

### **Registrar Record**

A Whois query that results in Registrar information will return the following. This set of information is referred to as the Registrar Record.

*Input:*

Whois registrar EXAMPLE REGISTRAR LLC

*Output:*

Registrar ID:FDRD-DR  
  
Registrar GUID:99  
Registrar Organization:EXAMPLE REGISTRAR LLC  
Street1:123 EXAMPLE STREET  
City:ANYTOWN  
Postal Code:A1A1A1  
Country:EX  
Phone:+1.4443331234  
Email:EMAIL@EXAMPLE.COM

Created On:01-Jan-2005 16:50:58 UTC  
Last Updated On:10-Jan-2005 15:34:36 UTC  
Status:OK

## **2. Whois Provider Data Specification**

If requested by ICANN, Registry Operator will provide bulk access to up-to-date data concerning domain name and nameserver registrations maintained by Registry Operator in connection with the .info TLD on a daily schedule. This is only for purposes of providing free public query-based access to up-to-date data concerning domain name and nameserver registrations in multiple TLDs, to a party designated from time to time in writing by ICANN (the "Designated Recipient").

The specification of the content and format of this data, and procedures for providing access, will be as stated below, until changed according to the Registry Agreement.

### **Content**

The data sets will consist of files containing the following:

**1. Registrar objects.** The registrar object corresponds to a single registrar. It includes the following data:

- Registrar ID (conforming to the IANA registrar-ids registry)
- Contact ID of Registrar
- Registrar Administrative Contacts
- Registrar Technical Contacts
- Registrar Billing Contacts
- Registrar URL
- Registrar Creation Date
- Registrar Last Updated Date

**2. Contact objects.** The contact object corresponds to a single contact (whether registrant, administrative, technical or billing contact). The contact object includes the following data:

- Contact ID
- Contact Name
- Contact Organization
- Contact Address, City, State/Province, Country
- Contact Postal Code
- Contact Phone, Fax, E-mail

**3. Nameserver objects.** A nameserver object corresponds to a single registered nameserver. The nameserver object includes the following data:

- Name Server ID

Name Server Host Name  
Name Server IP Addresses if applicable  
Current Registrar  
Name Server Creation Date  
Name Server Last Updated Date

**4. Domain objects.** The domain object corresponds to a single Registered Name. Each domain object includes the following data:

Domain ID  
Domain Name  
Sponsoring Registrar  
Domain Status  
All contact information (including all details) with at least one each of:

- Registrant
- Administrative
- Technical
- Billing

All nameservers associated with this domain  
Domain Registration Date  
Domain Expiration Date  
Domain Last Updated Date

### **Format**

The format for the above files shall be as specified by ICANN, after consultation with Registry Operator.

### **Procedures for Providing Access**

The procedures for providing daily access shall be as mutually agreed by ICANN and Registry Operator. In the absence of an agreement, the files shall be provided by Registry Operator sending the files in encrypted form to the party designated by ICANN by Internet File Transfer Protocol.

### **Whois Data Specification – ICANN**

If requested by ICANN, Registry Operator shall provide bulk access by ICANN to up-to-date data concerning domain name and nameserver registrations maintained by Registry Operator in connection with the Registry TLD on a daily schedule, only for purposes of verifying and ensuring the operational stability of Registry Services and the DNS. The specification of the content and format of this data, and the procedures for providing access, shall be as stated below, until changed according to the Registry Agreement.



## Content

The data sets will consist of files containing the following:

**1. Registrar objects.** The registrar object corresponds to a single registrar. It includes the following data:

Registrar ID (conforming to the IANA registrar-ids registry)  
Contact ID of Registrar  
Registrar Administrative Contacts  
Registrar Technical Contacts  
Registrar Billing Contacts  
Registrar URL  
Registrar Creation Date  
Registrar Last Updated Date

**2. Contact objects.** The contact object corresponds to a single contact (whether registrant, administrative, technical or billing contact). The contact object includes the following data:

Contact ID  
Contact Name  
Contact Organization  
Contact Address, City, State/Province, Country  
Contact Postal Code  
Contact Phone, Fax, E-mail

**3. Nameserver objects.** A nameserver object corresponds to a single registered nameserver. The nameserver object includes the following data:

Name Server ID  
Name Server Host Name  
Name Server IP Addresses if applicable  
Current Registrar  
Name Server Creation Date  
Name Server Last Updated Date

**4. Domain objects.** The domain object corresponds to a single Registered Name. Each domain object includes the following data:

Domain ID  
Domain Name  
Sponsoring Registrar  
Domain Status  
All contact information (including all details) with at least one each of:

- Registrant

- Administrative
- Technical
- Billing

All nameservers associated with this domain

Domain Registration Date

Domain Expiration Date

Domain Last Updated Date

Format

The format for the above files shall be as specified by ICANN, after consultation with Registry Operator.

Procedures for Providing Access

The procedures for providing daily access shall be as mutually agreed by ICANN and Registry Operator. In the absence of an agreement, an up-to-date version (encrypted using a public key supplied by ICANN) of the files shall be placed at least once per day on a designated server and available for downloading by ICANN by Internet File Transfer Protocol.