RDAP database design

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## Database Diagram



## Table Details

### Table: RDAP\_AUTNUM

Comment: The Autonomous System Number (autnum) object class models Autonomous System Number registrations found in RIRs and represents the expected response to an "/autnum" query as defined by [I-D.ietf-weirds-rdap-query]. There is no equivalent object class for DNRs. The high level structure of the autnum object class consists of information about the network registration and entities related to the autnum registration (e.g. registrant information, contacts, etc.), and is similar to the IP Network entity object

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | AS\_ID | unique |  |
| IDX\_AS\_END\_AUTNUM | END\_AUTNUM, START\_AUTNUM |  |  |
| UK\_AS\_HANDLE | HANDLE | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **AS\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| HANDLE | varchar(100) | No |  |  | Registry-unique identifiers referenced an object. Should be ASCII and '-'/'\_'. |
| START\_AUTNUM | bigint(10) | No | 0 |  | The starting number in the block of autonomous system numbers |
| END\_AUTNUM | bigint(10) | No |  |  | The ending number in the block of autonomous system numbers |
| NAME | varchar(255) | Yes | <NULL> |  | An identifier assigned to the autnum registration by the registration holder |
| TYPE | varchar(255) | Yes | <NULL> |  | A string containing an RIR-specific classification of the autnum |
| COUNTRY | varchar(255) | Yes | <NULL> |  | A string containing the name of the 2 character country code of the autnum |
| LANG | varchar(64) | Yes | <NULL> |  | Language Identifier, e.g: "en" |
| PORT43 | varchar(4096) | Yes | <NULL> |  | Port 43 WHOIS Server |
| CUSTOM\_PROPERTIES | mediumtext | Yes |  |  | e.g: {"customKey1":"value1","customKey2":"value2" } |

### Table: RDAP\_AUTNUM\_REDIRECT

Comment: rdap\_autnum\_redirect is modelled on old table, which is to be modified by bootstraps

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | AS\_REDIRECT\_ID | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **AS\_REDIRECT\_ID** | int(11) unsigned | No | <auto\_increment> |  | Primary key |
| START\_AUTNUM | int(11) unsigned | No | 0 |  | The starting number in the block of autonomous system numbers |
| END\_AUTNUM | int(11) unsigned | No | 0 |  | The ending number in the block of autonomous system numbers |
| REDIRECT\_URL | varchar(4096) | No |  |  | Url for redirect  <http://tools.ietf.org/html/rfc6350#section-6.7.8> |

### Table: RDAP\_AUTNUM\_STATUS

Comment: state of an autnum, reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-10.2.1>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | AS\_STATUS\_ID | unique |  |
| IDX\_STATUS\_AS\_ID | AS\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **AS\_STATUS\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| AS\_ID | int(10) | No |  |  | Table RDAP\_AUTNUM’s primary key |
| STATUS | varchar(20) | No |  |  | Status array, each status length must be [0-20]. e.g: [“validated”,”redacted”] |

### Table: RDAP\_CONFORMANCE

Comment: Rdap conformance providing a hint as to the specifications used in the construction of the response. Reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-5.1>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | CONFORMANCE\_ID | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **CONFORMANCE\_ID** | int(10) unsigned | No |  |  | Primary Key |
| RDAP\_CONFORMANCE | varchar(2048) | No |  |  | e.g:  ["rdap\_level\_0"] |

### Table: RDAP\_DOMAIN

Comment: The domain object class represents a DNS name and point of delegation. For RIRs these delegation points are in the reverse DNS tree, whereas for DNRs these delegation points are in the forward DNS tree. In both cases, the high level structure of the domain object class consists of information about the domain registration, nameserver information related to the domain name, and entities related to the domain name (e.g. registrant information, contacts, etc.). Reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-6.3>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | DOMAIN\_ID | unique |  |
| IDX\_DOMAIN\_LDH\_NAME | LDH\_NAME |  |  |
| IDX\_DOMAIN\_UNICODE\_NAME | UNICODE\_NAME |  |  |
| UK\_DOMAIN\_HANDLE | HANDLE | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **DOMAIN\_ID** | int(10) | No | <auto\_increment> |  | Primary Key |
| HANDLE | varchar(100) | No |  |  | registry-unique identifiers referenced an object. Should be ASCII and '-'/'\_'. |
| LDH\_NAME | varchar(255) | No |  |  | puny name of domain. Can't contain last '.' of domain. Must be lowercased |
| UNICODE\_NAME | varchar(1024) | Yes | <NULL> |  | [0,1024]. unicode name of domain. If is ASCII domain then it is the same with ldhName |
| PORT43 | varchar(4096) | Yes | <NULL> |  | Port 43 WHOIS Server |
| LANG | varchar(64) | Yes | <NULL> |  | Language Identifier, e.g: "en" |
| TYPE | varchar(10) | Yes | dnr |  | a string containing an RIR-specific classification of the autnum |
| NETWORK\_ID | int(10) | Yes | <NULL> |  | Network id |
| CUSTOM\_PROPERTIES | mediumtext | Yes |  |  | e.g: {"customKey1":"value1","customKey2":"value2" } |

### Table: RDAP\_DOMAIN\_REDIRECT

Comment: rdap\_domain\_redirect is modelled on old table, which is to be modified by bootstraps

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | RDAP\_DOMAIN\_REDIRECT\_ID | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **RDAP\_DOMAIN\_REDIRECT\_ID** | int(11) unsigned | No | <auto\_increment> |  | Primary Key |
| REDIRECT\_TLD | varchar(255) | No |  |  | Redirect tld |
| REDIRECT\_URL | varchar(4096) | No |  |  | Url for redirect  <http://tools.ietf.org/html/rfc6350#section-6.7.8> |

### Table: RDAP\_DOMAIN\_STATUS

Comment: state of domain, reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-10.2.1>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | DOMAIN\_STATUS\_ID | unique |  |
| IDX\_DOMAIN\_ID | DOMAIN\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **DOMAIN\_STATUS\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| DOMAIN\_ID | int(10) | No |  |  | Table RDAP\_DOMAIN’s primary key |
| STATUS | varchar(20) | No |  |  | status array, each status length must be [0-20]. e.g: [“validated”,”redacted”] |

### Table: RDAP\_DSDATA

Comment: Ds data for domain DNSSEC, DNSSEC provides data integrity for DNS through digital signing of resource records. To enable DNSSEC, the zone is signed by one or more private keys and the signatures stored as RRSIG records. To complete the chain of trust in the DNS zone hierarchy, a digest of each DNSKEY record (which contains the public key) must be loaded into the parent zone, stored as Delegation Signer (DS) records and signed by the parent

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | DSDATA\_ID | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **DSDATA\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| KEY\_TAG | int(5) | No |  |  | The key tag field of a DNS DS record as specified by RFC 4034 |
| ALGORITHM | int(3) | No |  |  | The algorithm field of a DNS DS record as described by RFC 4034 |
| DIGEST | varchar(2048) | Yes | <NULL> |  | [0-2048]. the digest field of a DNS DS record as specified by RFC 4034 |
| DIGEST\_TYPE | int(3) | No |  |  | The digest type field of a DNS DS record as specified by RFC 4034 |

### Table: RDAP\_ENTITY

Comment: The entity object class represents the information of organizations, corporations, governments, non-profits, clubs, individual persons, and informal groups of people. All of these representations are so similar that it is best to represent them in JSON [RFC4627] with one construct, the entity object class, to aid in the re-use of code by implementers. The entity object is served by both RIRs and DNRs. Reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-6.1>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | ENTITY\_ID | unique |  |
| IDX\_ENTITY\_FN | FN |  |  |
| UK\_ENTITY\_HANDLE | HANDLE | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **ENTITY\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| HANDLE | varchar(100) | Yes | <NULL> |  | Registry-unique identifiers referenced an object. Should be ASCII and '-'/'\_'. |
| KIND | varchar(255) | Yes | <NULL> |  | <http://tools.ietf.org/html/rfc6350#section-6.1.4> |
| FN | varchar(255) | Yes | <NULL> |  | Entity name |
| EMAIL | varchar(255) | Yes | <NULL> |  | Email |
| TITLE | varchar(255) | Yes | <NULL> |  | <http://tools.ietf.org/html/rfc6350#section-6.6.1> |
| ORG | varchar(255) | Yes | <NULL> |  | Org |
| URL | varchar(4096) | Yes | <NULL> |  | <http://tools.ietf.org/html/rfc6350#section-6.7.8> |
| PORT43 | varchar(4096) | Yes | <NULL> |  | Port 43 WHOIS Server |
| LANG | varchar(64) | Yes | <NULL> |  | Language Identifier, e.g: "en" |
| CUSTOM\_PROPERTIES | mediumtext | Yes |  |  | e.g: {"customKey1":"value1","customKey2":"value2" } |

### Table: RDAP\_ENTITY\_STATUS

Comment: state of entity, reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-10.2.1>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | ENTITY\_STATUS\_ID | unique |  |
| IDX\_STATUS\_ENTITY\_ID | ENTITY\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **ENTITY\_STATUS\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| ENTITY\_ID | int(10) | No |  |  | Table RDAP\_ENTITY’s primary key |
| STATUS | varchar(20) | No |  |  | Status array, each status length must be [0-20]. e.g: [“validated”,”redacted”] |

### Table: RDAP\_ERRORMESSAGE

Comment: Some non-answer responses may return entity bodies with information that could be more descriptive. The basic structure of that response is an object class containing an error code number (corresponding to the HTTP response code) followed by a string named "title" followed by an array of strings named "description". Reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-7>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | ERROR\_ID | unique |  |
| UK\_ERROR\_CODE | ERROR\_CODE | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **ERROR\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| ERROR\_CODE | int(10) | No |  |  | Error code |
| TITLE | varchar(100) | Yes | <NULL> |  | Error description’s title |
| DESCRIPTION | varchar(1024) | No |  |  | Description array |
| LANG | varchar(64) | Yes | <NULL> |  | Language Identifier, e.g: "en" |

### Table: RDAP\_EVENT

Comment: Events that have occurred on an instance of an object class, reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-5.5>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | EVENT\_ID | unique |  |
| IDX\_EVENT\_ACTOR | EVENT\_ACTOR |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **EVENT\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| EVENT\_ACTION | varchar(255) | Yes | <NULL> |  | A string denoting the reason for the event |
| EVENT\_ACTOR | varchar(255) | Yes | <NULL> |  | Denoting the actor responsible for the event |
| EVENT\_DATE | datetime | Yes | <NULL> |  | UTC date time. Format must be like: 2015-01-01T01:01:01Z |

### Table: RDAP\_IDENTITY\_ACL

Comment: define Access Control Entry

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | ID | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **ID** | int(10) | No | <auto\_increment> |  | Primary key |
| OBJECT\_TYPE | varchar(64) | No |  |  | ACL type |
| OBJECT\_ID | int(10) | No |  |  | Object id |
| ROLE\_ID | int(10) | No |  |  | Table RDAP\_IDENTITY\_ROLE’s primary key |

### Table: RDAP\_IDENTITY\_ROLE

Comment: define Role

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | ROLE\_ID | unique |  |
| ROLE\_NAME | ROLE\_NAME | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **ROLE\_ID** | int(10) | No |  |  | Primary key |
| ROLE\_NAME | varchar(255) | No |  |  | Role name |

### Table: RDAP\_IDENTITY\_USER

Comment: define User

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | USER\_ID | unique |  |
| USER\_NAME | USER\_NAME | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **USER\_ID** | int(10) | No |  |  | Primary key |
| USER\_NAME | varchar(255) | No |  |  | User name |
| USER\_PWD | varchar(32) | No |  |  | User password |

### Table: RDAP\_IDENTITY\_USER\_REL\_ROLE

Comment: define relation between User and Role

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | ID | unique |  |
| USER\_ID | USER\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **ID** | int(10) | No | <auto\_increment> |  | Primary key |
| USER\_ID | int(10) | No |  |  | Table RDAP\_IDENTITY\_USER’s primary key |
| ROLE\_ID | int(10) | No |  |  | Table RDAP\_IDENTITY\_USER\_REL\_ROLE’s primary key |

### Table: RDAP\_IP

Comment: The IP Network object class models IP network registrations found in RIRs and is the expected response for the "/ip" query as defined by [I-D.ietf-weirds-rdap-query]. There is no equivalent object class for DNRs. The high level structure of the IP network object class consists of information about the network registration and entities related to the IP network (e.g. registrant information, contacts, etc...). Reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-6.4>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | IP\_ID | unique |  |
| UK\_IP\_HANDLE | HANDLE | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **IP\_ID** | int(10) | No | <auto\_increment> |  | Primary Key |
| HANDLE | varchar(100) | No |  |  | Registry-unique identifiers referenced an object. Should be ASCII and '-'/'\_'. |
| ENDADDRESS | varbinary(16) | No |  |  | The ending number in the block of network |
| STARTADDRESS | varbinary(16) | No |  |  | The starting number in the block of network |
| VERSION | varchar(2) | No |  |  | not null, value: v4/v6 |
| NAME | varchar(255) | Yes | <NULL> |  | An identifier assigned to the network registration by the registration holder |
| TYPE | varchar(255) | Yes | <NULL> |  | A string containing an RIR-specific classification of the network |
| COUNTRY | varchar(255) | Yes | <NULL> |  | A string containing the two-character country code of the network |
| PARENT\_HANDLE | varchar(255) | Yes | <NULL> |  | parent network of this network registration |
| LANG | varchar(64) | Yes | <NULL> |  | Language Identifier, e.g: "en" |
| PORT43 | varchar(4096) | Yes | <NULL> |  | Port 43 WHOIS Server |
| CIDR | varchar(255) | Yes | <NULL> |  | Formatted network used to generate self link for query. http://tools.ietf.org/html/rfc4632. e.g: 92.168.99.0/24 |
| CUSTOM\_PROPERTIES | mediumtext | Yes |  |  | e.g: {"customKey1":"value1","customKey2":"value2" } |

### Table: RDAP\_IP\_REDIRECT

Comment: rdap\_ip\_redirect is modelled on old table, which is to be modified by bootstraps

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | RDAP\_IP\_REDIRECT\_ID | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **RDAP\_IP\_REDIRECT\_ID** | int(11) unsigned | No | <auto\_increment> |  | Primary key |
| ENDADDRESS | varbinary(16) | No |  |  | The ending number in the block of network |
| STARTADDRESS | varbinary(16) | No |  |  | The starting number in the block of network |
| REDIRECT\_URL | varchar(4096) | No |  |  | Url for redirect  <http://tools.ietf.org/html/rfc6350#section-6.7.8> |
| VERSION | varchar(2) | No |  |  | not null, value: v4/v6 |

### Table: RDAP\_IP\_STATUS

Comment: state of IP Network object, reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-10.2.1>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | IP\_STATUS\_ID | unique |  |
| IDX\_IP\_STATUS\_IP\_ID | IP\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **IP\_STATUS\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| IP\_ID | int(10) | No |  |  | Table RDAP\_IP’s primary key |
| STATUS | varchar(20) | No |  |  | Status array, each status length must be [0-20]. e.g: [“validated”,”redacted”] |

### Table: RDAP\_KEYDATA

Comment: Key data for domain DNSSEC, DNSSEC provides data integrity for DNS through digital signing of resource records. To enable DNSSEC, the zone is signed by one or more private keys and the signatures stored as RRSIG records. To complete the chain of trust in the DNS zone hierarchy, a digest of each DNSKEY record (which contains the public key) must be loaded into the parent zone, stored as Delegation Signer (DS) records and signed by the parent

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | KEYDATA\_ID | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **KEYDATA\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| FLAGS | int(3) | No |  |  | The flags field value in the DNSKEY record as specified by RFC 4034 |
| PROTOCOL | int(1) | No |  |  | The protocol field value of the DNSKEY record as specified by RFC 4034 |
| PUBLIC\_KEY | varchar(2048) | Yes | <NULL> |  | The public key in the DNSKEY record as specified by RFC 4034 |
| ALGORITHM | int(3) | No |  |  | The algorithm field of a DNSKEY record as specified by RFC 4034 |

### Table: RDAP\_LINK

Comment: The "links" array is found in data structures to signify links to other resources on the Internet. The relationship of these links is defined by the IANA registry described by [RFC5988]. Reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-5.2>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | LINK\_ID | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **LINK\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| VALUE | varchar(2048) | Yes | <NULL> |  | [0-2048]. e.g: "http://example.com/context\_uri" |
| REL | varchar(255) | Yes | <NULL> |  | e.g: "self" |
| HREF | varchar(2048) | Yes | <NULL> |  | e.g: "http://example.com/target\_uri" |
| MEDIA | varchar(255) | Yes | <NULL> |  | e.g: "screen" |
| TYPE | varchar(255) | Yes | <NULL> |  | e.g: "application/json" |
| TITLE | varchar(255) | Yes | <NULL> |  | <http://tools.ietf.org/html/rfc5988#section-5> |

### Table: RDAP\_LINK\_HREFLANG

Comment: link href

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | HREFLANG\_ID | unique |  |
| IDX\_LINK\_HREFLANG\_LINK\_ID | LINK\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **HREFLANG\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| LINK\_ID | int(10) | No |  |  | Table RDAP\_LINK’s primary key |
| HREFLANG | varchar(64) | Yes | <NULL> |  | Language Identifier, e.g: "en" |

### Table: RDAP\_NAMESERVER

Comment: The nameserver object class represents information regarding DNS name servers used in both forward and reverse DNS. RIRs and some DNRs register or expose nameserver information as an attribute of a domain name, while other DNRs model nameservers as "first class objects". The nameserver object class accommodates both models and degrees of variation in between. Reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-6.2>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | NAMESERVER\_ID | unique |  |
| IDX\_NAMESERVER\_LDH\_NAME | LDH\_NAME |  |  |
| IDX\_NAMESERVER\_UNICODE\_NAME | UNICODE\_NAME |  |  |
| UK\_NAMESERVER\_HANDLE | HANDLE | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **NAMESERVER\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| HANDLE | varchar(100) | Yes | <NULL> |  | Registry-unique identifiers referenced an object. Should be ASCII and '-'/'\_'. |
| LDH\_NAME | varchar(255) | No |  |  | Puny name of nameserver. Can't contain last '.' of domain. Must be lowercased. |
| UNICODE\_NAME | varchar(1024) | Yes | <NULL> |  | [0,1024]. If is ASCII nameserver then it is the same with ldhName |
| PORT43 | varchar(4096) | Yes | <NULL> |  | Port 43 WHOIS Server |
| LANG | varchar(64) | Yes | <NULL> |  | Language Identifier, e.g: "en" |
| CUSTOM\_PROPERTIES | mediumtext | Yes |  |  | e.g: {"customKey1":"value1","customKey2":"value2" } |

### Table: RDAP\_NAMESERVER\_IP

Comment: nameserver ip, NOT RDAP IP object, reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-6.2>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | NAMESERVER\_IP\_ID | unique |  |
| IDX\_NAMESERVER\_IP\_NAMESERVER\_ID | NAMESERVER\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **NAMESERVER\_IP\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| NAMESERVER\_ID | int(10) | No |  |  | Table RDAP\_NAMESERVER’s primary key |
| IP | varbinary(16) | No |  |  | The number of network |
| VERSION | varchar(2) | No |  |  | Not null, value: v4/v6 |

### Table: RDAP\_NAMESERVER\_STATUS

Comment: nameserver status , reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-10.2.1>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | NAMESERVER\_STATUS\_ID | unique |  |
| IDX\_NAMESERVER\_STATUS\_NAMESERVER\_ID | NAMESERVER\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **NAMESERVER\_STATUS\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| NAMESERVER\_ID | int(10) | No |  |  | Table RDAP\_NAMESERVER’s primary key |
| STATUS | varchar(20) | No |  |  | Status array, each status length must be [0-20]. e.g: [“validated”,”redacted”] |

### Table: RDAP\_NOTICE

Comment: The "notices", "help" and "remarks" data structures take the same form. The "notices" structure denotes information about the service providing RDAP information, whereas the "remarks" structure denotes information about the object class, reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-5.3>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | NOTICE\_ID | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **NOTICE\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| TYPE | varchar(6) | No |  |  | Type |
| TITLE | varchar(255) | Yes | <NULL> |  | Title |
| REASON\_TYPE | varchar(100) | Yes | <NULL> |  | Reason type |
| REASON\_TYPE\_SHORT\_NAME | varchar(50) | Yes | <NULL> |  | Reason type short name |

### Table: RDAP\_NOTICE\_DESCRIPTION

Comment: Description for notice  
emark for registration objecthelp, reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-5.3>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | NOTICE\_DESC\_ID | unique |  |
| IDX\_NOTICE\_DESCRIPTION\_NOTICE\_ID | NOTICE\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **NOTICE\_DESC\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| NOTICE\_ID | int(10) | No |  |  | Table RDAP\_NOTICE’s primary key |
| DESCRIPTION | varchar(2048) | No |  |  | Description array |

### Table: RDAP\_POLICY

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | Id | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **Id** | int(11) | No | <auto\_increment> |  | Primary key |
| OBJECT\_TYPE | varchar(255) | No |  |  | Object type |
| HIDE\_COLUMN | varchar(255) | No |  |  | Hide column |

### Table: RDAP\_PUBLICID

Comment: The publicid maps a public identifier to a registration object, reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-5.8>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | PUBLIC\_ID | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **PUBLIC\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| IDENTIFIER | varchar(255) | Yes | <NULL> |  | A public identifier of the type denoted by 'type' |
| TYPE | varchar(255) | Yes | <NULL> |  | A string denoting the type of public identifier |

### Table: RDAP\_SECUREDNS

Comment: SecureDNS member to represent secure DNS information about domain names. DNSSEC provides data integrity for DNS through digital signing of resource records. To enable DNSSEC, the zone is signed by one or more private keys and the signatures stored as RRSIG records. To complete the chain of trust in the DNS zone hierarchy, a digest of each DNSKEY record (which contains the public key) must be loaded into the parent zone, stored as Delegation Signer (DS) records and signed by the parent

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | SECUREDNS\_ID | unique |  |
| IDX\_SECUREDNS\_DOMAIN\_ID | DOMAIN\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **SECUREDNS\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| ZONE\_SIGNED | tinyint(1) | Yes | <NULL> |  | True if the zone has been signed, false otherwise. |
| DELEGATION\_SIGNED | tinyint(1) | No |  |  | Boolean true if there are DS records in the parent, false otherwise. |
| MAX\_SIGLIFE | int(11) | Yes | <NULL> |  | The signature life time in seconds to be used when creating the RRSIG DS record |
| DOMAIN\_ID | int(10) | No |  |  | Table RDAP\_DOMAIN’s primary key |

### Table: RDAP\_VARIANT

Comment: Internationalized Domain Names (IDNs) are denoted in this specification by the separation of DNS names in LDH form and Unicode form. Representation of IDNs in registries is described by the "variants" object, reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#page-26>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | VARIANT\_ID | unique |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **VARIANT\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| LDH\_NAME | varchar(255) | No |  |  | Variant's ldhName.Can't contain last '.' of domain. Must be lowercased. |
| UNICODE\_NAME | varchar(1024) | No |  |  | Variant's unicodeName |
| IDNTABLE | varchar(255) | Yes | <NULL> |  | The name of the IDN table of codepoints |

### Table: RDAP\_VCARD\_ADR

Comment: The entity object class uses jCard [I-D.ietf-jcardcal-jcard] to represent contact information, including postal addresses. jCard has the ability to represent multiple language preferences, multiple email address and phone numbers, and multiple postal addresses in both a structured and unstructured format. Reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-6.1>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | ADR\_ID | unique |  |
| IDX\_ADR\_ENTITY\_ID | ENTITY\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **ADR\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| POST\_BOX | varchar(255) | Yes | <NULL> |  | Postbox |
| EXT\_ADR | varchar(255) | Yes | <NULL> |  | The extended address |
| STREET | varchar(255) | Yes | <NULL> |  | Street address |
| CITY | varchar(255) | Yes | <NULL> |  | City |
| SP | varchar(255) | Yes | <NULL> |  |  |
| POSTAL\_CODE | varchar(255) | Yes | <NULL> |  | Postal code |
| COUNTRY | varchar(255) | Yes | <NULL> |  | A string containing the name of the 2 character country code |
| ENTITY\_ID | int(10) | No |  |  | Table RDAP\_ENTITY’s primary key |
| TYPE | varchar(255) | Yes | <NULL> |  | Type |
| PREF | int(3) | Yes | <NULL> |  |  |

### Table: RDAP\_VCARD\_TEL

Comment: The entity object class uses jCard [I-D.ietf-jcardcal-jcard] to represent contact information, including postal addresses. jCard has the ability to represent multiple language preferences, multiple email address and phone numbers, and multiple postal addresses in both a structured and unstructured format, reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-6.1>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | TEL\_ID | unique |  |
| IDX\_TEL\_ENTITY\_ID | ENTITY\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **TEL\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| TYPE | varchar(255) | Yes | <NULL> |  | Type |
| GLOBAL\_NUMBER | varchar(255) | Yes | <NULL> |  | Global number |
| EXT\_NUMBER | varchar(255) | Yes | <NULL> |  | The extended number |
| ENTITY\_ID | int(10) | No |  |  | Table RDAP\_ENTITY’s primary key |
| PREF | int(3) | Yes | <NULL> |  |  |

### Table: REL\_DOMAIN\_NAMESERVER

Comment: define relationship between <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-6.3> and its <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-6.2>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | REL\_DOMAIN\_NS\_ID | unique |  |
| IDX\_REL\_DOMAIN\_NAMESERVER\_DOMAIN\_ID | DOMAIN\_ID |  |  |
| IDX\_REL\_DOMAIN\_NAMESERVER\_NAMESERVER\_ID | NAMESERVER\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **REL\_DOMAIN\_NS\_ID** | bigint(12) unsigned | No | <auto\_increment> |  | Primary key |
| DOMAIN\_ID | int(10) | No |  |  | Table RDAP\_DOMAIN’s primary key |
| NAMESERVER\_ID | int(10) | No |  |  | Table RDAP\_NAMESERVER’s primary key |

### Table: REL\_DOMAIN\_VARIANT

Comment: define relationship between <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-6.3> and its <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#page-26>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | REL\_VARIANT\_ID | unique |  |
| IDX\_REL\_DOMAIN\_VARIANT\_DOMAIN\_ID | DOMAIN\_ID |  |  |
| IDX\_REL\_DOMAIN\_VARIANT\_VARIANT\_ID | VARIANT\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **REL\_VARIANT\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| DOMAIN\_ID | int(10) | No |  |  | Table RDAP\_DOMAIN’s primary key |
| VARIANT\_TYPE | varchar(255) | Yes | <NULL> |  | Variant type |
| VARIANT\_ID | int(10) | No |  |  | Table RDAP\_VARIANT’s primary key |

### Table: REL\_ENTITY\_REGISTRATION

Comment: define relationship between an <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-6.1> and the registration object(Entity, Domain, IP network, Autnum and Nameserver)

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | REL\_ENTITY\_ID | unique |  |
| IDX\_REL\_ENTITY\_ENTITY\_ID | ENTITY\_ID |  |  |
| IDX\_REL\_ENTITY\_REL\_ID | REL\_ID, REL\_OBJECT\_TYPE |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **REL\_ENTITY\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| REL\_ID | int(10) | No |  |  | Relationship id |
| REL\_OBJECT\_TYPE | varchar(16) | No |  |  | Relation object type  e.g:  “domain”, “nameServer” |
| ENTITY\_ID | int(10) | No |  |  | Table RDAP\_ENTITY’s primary key |
| ENTITY\_ROLE | varchar(255) | Yes | <NULL> |  | Entity role |

### Table: REL\_EVENT\_REGISTRATION

Comment: define relationship between <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-5.5> and the registration object(Entity, Domain, IP network, Autnum and Nameserver)

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | REL\_EVENT\_ID | unique |  |
| IDX\_REL\_EVENT\_EVENT\_ID | EVENT\_ID |  |  |
| IDX\_REL\_EVENT\_REL\_ID | REL\_ID, REL\_OBJECT\_TYPE |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **REL\_EVENT\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| REL\_ID | int(10) | No |  |  | Relationship id |
| REL\_OBJECT\_TYPE | varchar(16) | Yes | <NULL> |  | Relation object type  e.g:  “domain”, “nameServer” |
| EVENT\_ID | int(10) | No |  |  | Table RDAP\_EVENT’s primary key |

### Table: REL\_LINK\_OBJECT

Comment: define relationship between <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-5.2> and regsitration object(Entity, Domain, IP network, Autnum, Nameserver, Remark, Notice .etc)

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | REL\_LINK\_ID | unique |  |
| IDX\_REL\_LINK\_LINK\_ID | LINK\_ID |  |  |
| IDX\_REL\_LINK\_REL\_ID | REL\_ID, REL\_OBJECT\_TYPE |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **REL\_LINK\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| REL\_ID | int(10) | No |  |  | Relationship id |
| REL\_OBJECT\_TYPE | varchar(16) | No |  |  | Relation object type  e.g:  “domain”, “nameServer” |
| LINK\_ID | int(10) | No |  |  | Table RDAP\_LINK’s primary key |

### Table: REL\_NOTICE\_REGISTRATION

Comment: define relationship between <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-5.3> and registration object(Entity, Domain, IP network, Autnum and Nameserver)

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | REL\_NOTICE\_ID | unique |  |
| IDX\_REL\_NOTICE\_NOTICE\_ID | NOTICE\_ID |  |  |
| IDX\_REL\_NOTICE\_REL\_ID | REL\_ID, REL\_OBJECT\_TYPE |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **REL\_NOTICE\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| REL\_ID | int(10) | No |  |  | Relationship id |
| REL\_OBJECT\_TYPE | varchar(16) | No |  |  | Relation object type  e.g:  “domain”, “nameServer” |
| NOTICE\_ID | int(10) | No |  |  | Table RDAP\_NOTICE’s primary key |

### Table: REL\_PUBLICID\_REGISTRATION

Comment: define relationship between <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#section-5.8> and some registration object(Entity, Domain, IP network, Autnum and Nameserver)

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | REL\_PUBLICID\_ID | unique |  |
| IDX\_REL\_PUBLICID\_PUBLIC\_ID | PUBLIC\_ID |  |  |
| IDX\_REL\_PUBLICID\_REL\_ID | REL\_ID, REL\_OBJECT\_TYPE |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **REL\_PUBLICID\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| REL\_ID | int(10) | No |  |  | Relationship id |
| REL\_OBJECT\_TYPE | varchar(16) | No |  |  | Relation object type  e.g:  “domain”, “nameServer” |
| PUBLIC\_ID | int(10) | No |  |  | Table RDAP\_PUBLICID’s primary key |

### Table: REL\_SECUREDNS\_DSKEY

Comment: define relationship between securedns and dsdata or keydata. Reference to <http://tools.ietf.org/html/draft-ietf-weirds-json-response-06#appendix-D>

#### Keys:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Extras | Comment |
| **Primary Key** | REL\_SECUREDNS\_ID | unique |  |
| IDX\_REL\_SECUREDNS\_REL\_ID | REL\_ID, REL\_DSKEY\_TYPE |  |  |
| IDX\_REL\_SECUREDNS\_SECUREDNS\_ID | SECUREDNS\_ID |  |  |

#### Fields:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | NULL | Default | Extras | Comment |
| **REL\_SECUREDNS\_ID** | int(10) | No | <auto\_increment> |  | Primary key |
| SECUREDNS\_ID | int(10) | No |  |  | Table RDAP\_SECUREDNS’s primary key |
| REL\_DSKEY\_TYPE | varchar(16) | Yes | <NULL> |  | Relation dskey type.  e.g:  “keyData”, “dsData” |
| REL\_ID | int(10) | No |  |  | Relationship id |