DiscoveryDNS API

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About DiscoveryDNS

DiscoveryDNS provides a global DNS service to ARI Registry Services' clients around the world. ARI Registry Services launched DiscoveryDNS based on client demand and leverages over 11 years of industry experience and expertise.

About ARI Registry Services

ARI Registry Services, part of the Bombora Technologies group of companies, is driving innovation and the expansion of the Internet through the delivery of world-class domain name Registry Services. With over 11 years of experience, ARI Registry Services is a leading provider of DNS and Domain Name Infrastructure Services for generic Top-Level Domain applicants and country code Registry Operators.

We help governments, major brands and entrepreneurs across the globe realise the full potential of the Internet by providing expertise, security and reliability \ operating a core Internet infrastructure.

Purpose

The purpose of this document is to provide an overview of the DiscoveryDNS Reseller system API, supporting Developers and System Integrators to integrate their systems with DiscoveryDNS.

Scope

This document defines the DiscoveryDNS Reseller system protocol, but not supporting toolkits.

Audience

Developers and System Integrators.

Contents

1   Introduction

This document is aimed at developers and system administrators. It describes the DiscoveryDNS reseller system API, used to manage domain names within the Reseller platform.

This document is not intended to explain the functionality of the Reseller system. The Systems Guide document explains the following concepts in more detail:

- Objects
- Commands
- Relationships
- Rules and logic

DiscoveryDNS provides a toolkit which implements a simple programmatic interface for this protocol, removing the need to understand any of the intricacies of this specification. For more information on this Java-based toolkit please consult your DiscoveryDNS account manager.

2   General

The DiscoveryDNS API protocol is a 'REST like' protocol that operates over a secure HTTP connection. Entities are represented in JSON format, allowing easy integration using programming languages that supports HTTPS and JSON. Many REST toolkits will also work well with the protocol.

This section provides general information required to use commands in the DiscoveryDNS protocol. Sections 3 through 8 describe each command in detail. These sections provide an explanation of the request and response format for each command as well as examples.

To fully understand the DiscoveryDNS reseller system and some of the concepts in this document, the following related RFCs should be consulted:

- RFC2616 – Hypertext Transfer Protocol – HTTP/1.1

- RFC2818 – HTTP Over TLS

- RFC4627 - The application/json Media Type for JavaScript Object Notation (JSON)

- RFC1034-1035 – Domain Names

- RFC4033 – 4035 – DNSSEC

A more extensive list of DNS standards is available here,
http://en.wikipedia.org/wiki/Domain_Name_System#Internet_standards

2.1   Data Types

Throughout this document the following data types are used. These are 'loose' data type definitions. You will need to find the relevant mappings in your implementation language of choice. For reference, the Java object types used to map each data type is provided below.

Name	Java Type	Description
integer	Integer or Long	A standard integer, it should be noted that the largest possible integer returned is the size of a Java Long (64 bits). Unless otherwise noted integers are unsigned.
double	Double	A double precision floating point number
string	String	An string consisting of ASCII characters only
timestamp	LocalDateTime (JodaTime Library)	A date and timestamp, generally including time zone information in ISO 8601 form
boolean	Boolean	A value of "true" or "false"
uuid	UUID	A Type 4 UUID value
ipv4Address	Inet4Address	An IPv4 address
ipv6Address	Inet6Address	An IPv6 address

Some entities described in this document include fields with values that are composite types. These composite type names start with capital letters and have their own fields, defined usually in a table immediately following the parent type, or a reference to their definition is provided. Additionally, if you see a type name followed by the characters "[]" this means that the value of this field is a JSON list, and so an array of values of that type.

2.2 Protocol Overview

The transport used by the protocol is HTTPS and requires the use of HTTP version 1.1 as denoted by the string "HTTP/1.1". Throughout the document you will see references to 'service-address'. The 'service-address' is the domain name (and perhaps port) required to connect to the environment you are interested in.

For example, if the service address of OTE (Operational Test Environment) was api.ote.discoverydns.com and the port was the standard https port of 443, the service address would be:

- api.ote.discoverydns.com

If the service address used the non-standard port for SSL 1443, the address would be:

- api.ote.discoverydns.com:1443

Similarly the production environment might be:

- api.discoverydns.com

For specific information on the service addresses and available environments, please consult the Service Desk.

Currently the only accepted (and returned) content type is "application/json", in both requests and responses. For objects all fields are returned, however if your access level prohibits certain information, then affected fields will have a 'null' value.

All objects use a primary identifier of Type 4 UUID.

2.3 Authentication

Authentication is achieved using SSL client certificate authentication. As part of completing the SSL handshake the certificate presented must be one that is issued by DiscoveryDNS, signed by the DiscoveryDNS CA. It must include the UUID of the user you wish to authenticate in the Common Name (CN) field.

All the standard certificate checks are applied (expiry checks, revocation checks etc.)as well as verification that the certificate was issued by the DiscoveryDNS CA. The server certificate returned by the platform is also signed by the DiscoveryDNS CA, the public certificate of which will be provided to you for the purpose of server authentication.

Certificates will be valid for one year unless revoked earlier, and will need to be renewed yearly on issue date. Only the TLSv1.1 protocol is supported with STRONG or greater cipher suites. Testing and production certificates cannot be used in production. Please contact the service desk to arrange allocation of your certificates.

2.4 Update Version Check

The DiscoveryDNS system uses an optimistic locking strategy to detect and mitigate simultaneous updates. In this locking scheme you must provide the version of the object you wish to update, provided in a DiscoveryDNS response. If the object was modified by another transaction before your transaction is

processed by DiscoveryDNS, your version number will not match, flagging a concurrent modification error. This ensures consistency of data and that simultaneous updates do not result in data corruption or inconsistent state. Should you receive a concurrent modification error response you should verify that you still want to proceed with the update (given the new attribute values of the object) and if so, retry the command with the new latest version number.

If you do not wish to take advantage of the protections of version based updates you can simply not provide the version field and the current version of the object will be inserted on your behalf. This greatly reduces the window of simultaneous modification and will only result in a concurrent modification errors if you are attempting to modify the same object on multiple connections at the same time (which should always be avoided).

2.5   E-Tag Evaluation

The DiscoveryDNS API fully supports the evaluation of entity tags or 'ETags'. When an ETag header is encounter in get commands a HTTP 304 NOT MODIFIED response will be sent if that object has not been modified since it was last returned with that ETag. The version field and the ETag field of the object will always be consistent. Use of ETag precondition checking in modification commands is also supported if required.

2.6   General Request Headers

The following request headers are standard for all requests:

Header	Required	Custom Header	Description
Client-Transaction-Id	No	Yes	A user assigned identifier for the transaction. This will be recorded with the transaction log and returned in the response. Set this to an arbitrary ASCII string up to 63 characters in length.
Accept	Yes	No	The content type to accept in the response. Set this to 'application/json'.
User-Agent	Yes	No	The name of the user agent being used to make the request. This will be logged in the server logs and may help when reporting issues.
Host	Yes	No	The identifier of the host you are connecting to.
Connection	No	No	Set this to 'Keep-Alive' if you wish to reuse the http connection.

2.7   General Response Headers

The following response headers are standard for all responses:

Header	Custom Header	Description
Cache-Control	No	This specifies the expected behaviour of caches for the response. In most cases, this header will indicate that the response is private and should only be cached if secrecy of the data can be maintained. The response will indicate a relatively short max-cache time of 30 seconds. Caching is optional and so this header can be ignored.
Content-Length	No	This header will indicate the length (in bytes) of the response body if present.
Content-Type	No	This specifies the type of content included in the response body. Currently this will be 'application/json' only.
Date	No	The date and time in UTC that the transaction was processed.
ETag	No	If a response body contains a single entity then this header will contain the version information of that entity, to be used in ETag requests
Server-Transaction-Id	Yes	A server assigned unique identifier for this transaction. This will be recorded with the transaction log. Expect this to be a valid Type 4 UUID string.
Client-Transaction-Id	Yes	If a client transaction id was supplied in the request, this will be returned in the response here.
Last-Modified	No	If the response body contains a single entity and that entity was updated then this will contain the date and time in UTC that the entity was last updated (which could be as a result of the just executed request).

2.8   Errors and Failures

If any command encounters an error a HTTP status code will be returned indicating the nature of the error , along with a JSON representation of the error message. The error message JSON object has the following fields:

Field Name	Type	Description
message	string	A message describing the error that occurred

An example of the error message is:

```
{

  "error" : {

    "message" : "Error Code: 400 - The zone with id '924fc39c-8c28-46cb-bf64-
eb5998990399' was not found"

  }

}
```

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3 Account Commands

3.1 Account Get Command

This command is used to retrieve the details of an account object provisioned in the system.

3.1.1 Request

A request should be made to the specified URI including the indicated headers, and if required a request body in the format specified.

URI

The request URI is specified as follows:

HTTP Method	Request URI
GET	https://{service-address}/accounts/{id-or-identifier}

Where:

Field	Description
service-address	The service address as described in section 2.2
id-or-identifier	The id or identifier of the account whose details you want to retrieve

Query Parameters

Not allowed for this command.

Request Headers

Only the standard request headers described in section 2.6 are supported.

Request Body

Not allowed for this command.

3.1.2 Response

The response will include a status code, response headers and in some case a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 200 (OK).

Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

A JSON representation of the account object with the following fields:

Field Name	Type	Description
@uri	string	The uri that can be used to obtain information about this object
id	uuid	The UUID of the object
version	integer	The current version of the object. This should be sent back to the server with any update commands for this object to ensure that concurrent modifications errors do not occur
name	string	The name of the account
identifier	string	The unique textual identifier assigned to the account
status	string	The current status of the account
currency	string	The 3 letter currency code of the currency used for billing operations on this account
minimumCommitment	double	The monthly minimum commitment the account is committed to
minimumCommitmentStartDate	timestamp	The date on which the monthly minimum commitment will start being charged
createDate	timestamp	The date and time in UTC that this object was created
createAccountId	uuid	The UUID of the account which created the object
createAccountIdentifier	string	The identifier of the account which created the object
createUserId	uuid	The UUID of the user which created the object
createUserName	string	The name of the user which created the object
lastUpdateDate	timestamp	The date and time in UTC that this object was last updated, null if the object has never been updated
lastUpdateAccountId	uuid	The UUID of the account which last updated the object, null if the object has never been updated
lastUpdateAccountIdentifier	string	The identifier of the account which last updated the object, null if the object has never been updated
lastUpdateUserId	uuid	The UUID of the user which last updated the object, null if the object has never been updated
lastUpdateUserName	string	The name of the user which last updated the object, null if the object has never been updated

3.1.3 Example

Below is an example of an account get command request and response:

Request:

```
GET /accounts/3386a608-07ba-4a01-bb64-648205b8153b HTTP/1.1
Client-Transaction-Id: 2049ee97-0940-4451-84bb-aedc31dee86c
```

```
Accept: application/json
User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)
Host: api.discoverydns.com
Connection: Keep-Alive
```

Response:

```
HTTP/1.1 200 OK
Content-Type: application/json
Last-Modified: Sun, 06 Oct 2013 14:39:22 GMT
ETag: "0"
Cache-Control: private, no-transform, max-age=30
Date: Sun, 06 Oct 2013 14:39:22 GMT
Server-Transaction-Id: 30df3fd8-4093-4f81-a422-7010fec8c781
Client-Transaction-Id: 2049ee97-0940-4451-84bb-aedc31dee86c
Content-Length: 922

{
  "account" : {
    "@uri" : "https://api.discoverydns.com/accounts/3386a608-07ba-4a01-bb64-
648205b8153b",
    "id" : "3386a608-07ba-4a01-bb64-648205b8153b",
    "version" : 0,
    "name" : "Testing Account-_0.3",
    "identifier" : "testing-acc_ou.nt3",
    "status" : "active",
    "currency" : "AUD",
    "minimumCommitment" : 3.0,
    "minimumCommitmentStartDate" : "2013-10-07T01:39:22.194",
    "createDate" : "2013-10-07T01:39:22.194",
    "createAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",
    "createAccountIdentifier" : "system",
    "createUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",
    "createUserName" : "System Admin",
    "lastUpdateDate" : "2013-10-07T01:39:22.194",
    "lastUpdateAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",
    "lastUpdateAccountIdentifier" : "system",
    "lastUpdateUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",
    "lastUpdateUserName" : "System Admin"
```

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```
    }
}
```

4 User Commands

4.1 User Get Command

This command is used to retrieve the details of a user object provisioned in the system.

4.1.1 Request

A request should be made to the specified URI including the indicated headers, and if required a request body in the format specified.

URI

The request URI is specified as follows:

HTTP Method	Request URI
GET	https://{service-address}/users/{id-or-username}

Where:

Field	Description
service-address	The service address as described in section 2.2
id-or-username	The id or username of the user whose details you want to retrieve

Query Parameters

Not allowed for this command.

Request Headers

Only the standard request headers described in section 2.6 are supported.

Request Body

Not allowed for this command.

4.1.2 Response

The response will include a status code, response headers and in some case a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 200 (OK).

Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

A JSON representation of the user object with the following fields:

Field Name	Type	Description
@uri	string	The uri that can be used to obtain information about this object
id	uuid	The UUID of the object
version	integer	The current version of the object. This should be sent back to the server with any update commands for this object to ensure that concurrent modifications errors do not occur
username	string	The username of the user
name	string	The name of the user
email	string	The email address of the user
passwordExpireDate	timestamp	The date and time in UTC that the password of this user will expire and require changing
sponsorAccountId	uuid	The UUID of the account that the user is a member of (currently owned by or is sponsored by)
sponsorAccountIdentifier	string	The identifier of the account that the user is a member of (currently owned by or is sponsored by)
status	string	The current status of the user
roles	string[]	A list containing the names of the roles assigned to this user
createDate	timestamp	The date and time in UTC that this object was created
createAccountId	uuid	The UUID of the account which created the object
createAccountIdentifier	string	The identifier of the account which created the object
createUserId	uuid	The UUID of the user which created the object
createUserName	string	The name of the user which created the object
lastUpdateDate	timestamp	The date and time in UTC that this object was last updated, null if the object has never been updated
lastUpdateAccountId	uuid	The UUID of the account which last updated the object, null if the object has never been updated
lastUpdateAccountIdentifier	string	The identifier of the account which last updated the object, null if the object has never been updated
lastUpdateUserId	uuid	The UUID of the user which last updated the object, null if the object has never been updated
lastUpdateUserName	string	The name of the user which last updated the object, null if the object has never been updated

4.1.3 Example

Below is an example of a user get command request and response:

Request:

```
GET /users/273cf562-da2e-4f3d-82b7-f13e4e374b1f HTTP/1.1

Client-Transaction-Id: c3287a87-868c-4cdc-9bf3-1cd1af28f118

Accept: application/json

User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)

Host: api.discoverydns.com

Connection: Keep-Alive
```

Response:

```
HTTP/1.1 200 OK

Content-Type: application/json

Last-Modified: Sun, 06 Oct 2013 16:51:31 GMT

ETag: "0"

Cache-Control: private, no-transform, max-age=30

Date: Sun, 06 Oct 2013 16:51:32 GMT

Server-Transaction-Id: 3a23400d-6c61-408f-9b70-a52a3c68d261

Client-Transaction-Id: c3287a87-868c-4cdc-9bf3-1cd1af28f118

Content-Length: 1037


{
  "user" : {
    "@uri" : "https://api.discoverydns.com/users/273cf562-da2e-4f3d-82b7-
f13e4e374b1f",
    "id" : "273cf562-da2e-4f3d-82b7-f13e4e374b1f",
    "version" : 0,
    "username" : "test-ing_us.er4",
    "status" : "active",
    "name" : "Testing Us.e-_r4",
    "email" : "testing-user4@example.com",
    "passwordExpireDate" : "2013-10-07T03:51:31.455",
    "sponsorAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",
    "sponsorAccountIdentifier" : "system",
    "createDate" : "2013-10-07T03:51:31.455",
    "createAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",
```

```
    "createAccountIdentifier" : "system",

    "createUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",

    "createUserName" : "System Admin",

    "lastUpdateDate" : "2013-10-07T03:51:31.455",

    "lastUpdateAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",

    "lastUpdateAccountIdentifier" : "system",

    "lastUpdateUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",

    "lastUpdateUserName" : "System Admin",

    "roles" : [ "readOnly", "standard" ]
  }
}
```

4.2 User List Command

This command is used to retrieve a list of user objects provisioned in the system.

4.2.1 Request

A request should be made to the specified URI including the indicated headers, and if required a request body in the format specified.

URI

The request URI is specified as follows:

HTTP Method	Request URI
GET	https://{service-address}/users/

Where:

Field	Description
service-address	The service address as described in section 2.2

Query Parameters

The query parameters below can be used with this command. All query parameters are optional and if none are specified all users that are visible to the executing users account will be returned.

Parameter Name	Optional	Type	Description
searchName	Yes	string	Match all users that have a name which case insensitively contains the string
searchUsername	Yes	string	Match all users that have a username which case insensitively contains the string
searchStatus	Yes	string	Match all users that have this status (exact match)

Request Headers

Only the standard request headers described in section 2.6 are supported.

Request Body

Not allowed for this command.

4.2.2 Response

The response will include a status code, response headers and in some case a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 200 (OK).

Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

A JSON representation of the list of user objects that match the search criteria with field as follows:

Field Name	Type	Description
@uri	string	The URI that corresponds to the returned list
userList	UserRecord[]	A list of the users that matched the search parameters
totalCount	integer	The total number of records contained in the returned list

A UserRecord has the following fields:

Field Name	Type	Description
@uri	string	The URI that corresponds to the full details of the object
id	uuid	The UUID of the object
username	string	The username of the users
name	string	The name of the user
status	string	The status of the user
createDate	timestamp	The date and time that the object was created
lastUpdateDate	timestamp	The date and time that object was last updated. This will be null if the object has never been updated

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4.2.3 Example

Below is an example of a user list command request and response:

Request:

```
GET /users/?searchStatus=active HTTP/1.1

Client-Transaction-Id: 4eaec55a-1f76-4d94-a54a-4ec821f89d10

Accept: application/json

User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)

Host: api.discoverydns.com

Connection: Keep-Alive
```

Response:

```
HTTP/1.1 200 OK

Content-Type: application/json

Cache-Control: private, no-transform, max-age=30

Date: Sun, 06 Oct 2013 23:56:01 GMT

Server-Transaction-Id: 4f3a488a-981c-45d7-9777-ea99fffa8e84

Client-Transaction-Id: 4eaec55a-1f76-4d94-a54a-4ec821f89d10

Content-Length: 2991


{
  "users" : {
    "@uri" : "https://api.discoverydns.com/users/?searchStatus=active",
    "userList" : [ {
      "@uri" : "https://api.discoverydns.com/users/ed848682-c1d9-11e2-86bc-
e9b9e1409c4c",
      "id" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",
      "username" : "admin",
      "name" : "System Admin",
      "status" : "active",
      "createDate" : "2013-10-08T10:27:30.931",
      "lastUpdateDate" : null
    }, {
      "@uri" : "https://api.discoverydns.com/users/03fe4fef-4297-483e-89ae-
580dd1cf1188",
      "id" : "03fe4fef-4297-483e-89ae-580dd1cf1188",
      "username" : "test-ing_us.er4",
```

```
        "name" : "Testing Us.e-_r4",

        "status" : "active",

        "createDate" : "2013-10-07T23:27:38.187",

        "lastUpdateDate" : null

    }, {

        "@uri" : "https://api.discoverydns.com/users/24c03b98-bdae-43c3-a97a-
f00c83c38151",

        "id" : "24c03b98-bdae-43c3-a97a-f00c83c38151",

        "username" : "test-ing_us.er5",

        "name" : "Testing Us.e-_r5",

        "status" : "active",

        "createDate" : "2013-10-06T23:27:38.273",

        "lastUpdateDate" : "2013-10-07T23:27:38.273"

    } ],

    "totalCount" : 3

  }

}
```

5 Name Server Interface Set Commands

5.1 Name Server Interface Set Get Command

This command is used to retrieve the details of a name server interface set object provisioned in the system.

5.1.1 Request

A request should be made to the specified URI including the indicated headers, and if required a request body in the format specified.

URI

The request URI is specified as follows:

HTTP Method	Request URI
GET	https://{service-address}/nameserverinterfacesets/{id-or-name}

Where:

Field	Description
service-address	The service address as described in section 2.2
id-or-name	The id or name of the name server interface set whose details you want to retrieve

Query Parameter

Not allowed for this command.

Request Headers

Only the standard request headers described in section 2.6 are supported.

Request Body

Not allowed for this command.

5.1.2 Response

The response will include a status code, response headers and in some case a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 200 (OK).

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Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

A JSON representation of the name server interface set object with the following fields:

Field Name	Type	Description
@uri	string	The URI that can be used to obtain information about this object
id	uuid	The UUID of the object
version	integer	The current version of the object. This should be sent back to the server with any update commands for this object to ensure that concurrent modifications errors do not occur
name	string	The name of the name server interface set
status	string	The current status of the name server interface set
nameServerInterfaces	NameServerInterface[]	A list containing the name server interfaces that are represented by this name server interface set
createDate	timestamp	The date and time in UTC that this object was created
createAccountId	uuid	The UUID of the account which created the object
createAccountIdentifier	string	The identifier of the account which created the object
createUserId	uuid	The UUID of the user which created the object
createUserName	string	The name of the user which created the object
lastUpdateDate	timestamp	The date and time in UTC that this object was last updated, null if the object has never been updated
lastUpdateAccountId	uuid	The UUID of the account which last updated the object, null if the object has never been updated
lastUpdateAccountIdentifier	string	The identifier of the account which last updated the object, null if the object has never been updated
lastUpdateUserId	uuid	The UUID of the user which last updated the object, null if the object has never been updated
lastUpdateUserName	string	The name of the user which last updated the object, null if the object has never been updated

The NameServerInterface object has the following fields:

Field Name	Type	Description
order	integer	The order value of this interface, used to determine the order in which the corresponding NS records are generated
name	string	The name of this interface
ipv4Address	ipv4address	The IPv4 address assigned to this interface
Ipv6Address	ipv6address	The IPv6 address assigned to this interface

5.1.3 Example

Below is an example of a name server interface set get command request and response:

Request:

```
GET /nameserverinterfacesets/c166a51f-99d9-4be4-8f32-5d69155116b7 HTTP/1.1

Client-Transaction-Id: f2cf2eed-118f-4eff-83dc-9653c0bb09d7

Accept: application/json

User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)

Host: api.discoverydns.com

Connection: Keep-Alive
```

Response:

```
HTTP/1.1 200 OK

Content-Type: application/json

Last-Modified: Sun, 06 Oct 2013 17:11:47 GMT

ETag: "0"

Cache-Control: private, no-transform, max-age=30

Date: Sun, 06 Oct 2013 17:11:47 GMT

Server-Transaction-Id: f3d10907-e514-402e-b067-0a5d7200d1b9

Client-Transaction-Id: f2cf2eed-118f-4eff-83dc-9653c0bb09d7

Content-Length: 1201


{
  "nameServerInterfaceSet" :

    "@uri" : "https://api.discoverydns.com/nameserverinterfacesets/c166a51f-
99d9-4be4-8f32-5d69155116b7",

    "id" : "c166a51f-99d9-4be4-8f32-5d69155116b7",

    "name" : "Test-ing NameServer_Interfa.ceSet0",

    "version" : 0,

    "status" : "active",

    "createDate" : "2013-10-07T04:11:47.209",

    "createAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",

    "createAccountIdentifier" : "system",

    "createUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",

    "createUserName" : "System Admin",

    "lastUpdateDate" : "2013-10-07T04:11:47.209",

    "lastUpdateAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",

    "lastUpdateAccountIdentifier" : "system",
```

```
      "lastUpdateUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",

      "lastUpdateUserName" : "System Admin",

      "nameServerInterfaces" : [ {

        "order" : 1,

        "name" : "test-ing nameserver_interface0",

        "ipv4Address" : "231.241.83.103",

        "ipv6Address" : "e2a4:8bcf:a23a:5bd8:7c58:187e:9ab5:e2ad"

      }, {

        "order" : 2,

        "name" : "test-ing nameserver_interface1",

        "ipv4Address" : "95.252.48.206",

        "ipv6Address" : "87ac:18b2:52e7:2342:d23:9b2d:cac0:c9a4"

      } ]

  }

}
```

6 Name Server Set Commands

6.1 Name Server Set Get Command

This command is used to retrieve the details of a name server set object provisioned in the system.

6.1.1 Request

A request should be made to the specified URI including the indicated headers, and if required a request body in the format specified.

URI

The request URI is specified as follows:

HTTP Method	Request URI
GET	https://{service-address}/nameserversets/{id-or-name}

Where:

Field	Description
service-address	The service address as described in section 2.2
id-or-name	The id or name of the name server set whose details you want to retrieve

Query Parameter

Not allowed for this command.

Request Headers

Only the standard request headers described in section 2.6 are supported.

Request Body

Not allowed for this command.

6.1.2 Response

The response will include a status code, response headers and in some case a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 200 (OK).

Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

A JSON representation of the name server set object with the following fields:

Field Name	Type	Description
@uri	string	The URI that can be used to obtain information about this object
id	uuid	The UUID of the object
version	integer	The current version of the object. This should be sent back to the server with any update commands for this object to ensure that concurrent modifications errors do not occur
name	string	The name of the name server set
prefix	string	The prefix used in the generation of NS records for zones that use this name server set
domainName	string	The domain name used in the generation of NS records for unbranded zones that use this name server set
email	string	The email address that is used in the generation of the SOA record for zones that use this name server set
nameServerInterfaceSetId	uuid	The UUID of the name server interface set that this name server set obtains its interfaces from
nameServerInterfaceSetName	string	The name of the associated name server interface set
nameServerInterfaceSetInterfaces	NameServerInterface[]	A list containing the name server interfaces configured on the associated name server interface set
createDate	timestamp	The date and time in UTC that this object was created
createAccountId	uuid	The UUID of the account which created the object
createAccountIdentifier	string	The identifier of the account which created the object
createUserId	uuid	The UUID of the user which created the object
createUserName	string	The name of the user which created the object
lastUpdateDate	timestamp	The date and time in UTC that this object was last updated, null if the object has never been updated
lastUpdateAccountId	uuid	The UUID of the account which last updated the object, null if the object has never been updated

lastUpdateAccountIdentifier	string	The identifier of the account which last updated the object, null if the object has never been updated
lastUpdateUserId	uuid	The UUID of the user which last updated the object, null if the object has never been updated
lastUpdateUserName	string	The name of the user which last updated the object, null if the object has never been updated

The NameServerInterface object is as define in the Name Server Interface Set Get Response in section 5.1.

6.1.3 Example

Below is an example of a name server set get command request and response:

Request:

```
GET /nameserversets/111eba68-9531-4b79-aea3-74d05a3d441c HTTP/1.1

Client-Transaction-Id: 93a951ee-b2ad-4324-9acb-564d65d2a0f5

Accept: application/json

User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)

Host: api.discoverydns.com

Connection: Keep-Alive
```

Response:

```
HTTP/1.1 200 OK

Content-Type: application/json

Last-Modified: Sun, 06 Oct 2013 18:39:52 GMT

ETag: "0"

Cache-Control: private, no-transform, max-age=30

Date: Sun, 06 Oct 2013 18:39:52 GMT

Server-Transaction-Id: 5e2b0855-831e-4ced-a50f-1a926894ef0f

Client-Transaction-Id: 93a951ee-b2ad-4324-9acb-564d65d2a0f5

Content-Length: 1434


{
  "nameServerSet" : {
    "@uri" : "https://127.0.0.1:28443/nameserversets/111eba68-9531-4b79-aea3-
74d05a3d441c",
    "id" : "111eba68-9531-4b79-aea3-74d05a3d441c",
    "version" : 0,
```

```
    "name" : "Test-ing Name.Server_Set0",

    "prefix" : "testingprefix",

    "domainName" : "testing-domainName0.com",

    "email" : "testing-emailAddress0@example.com",

    "nameServerInterfaceSetId" : "66e0e2af-cade-4fcd-8e92-4f5b0536628b",

    "nameServerInterfaceSetName" : "Test-ing NameServer_Interfa.ceSet0",

    "createDate" : "2013-10-07T05:39:52.288",

    "createAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",

    "createAccountIdentifier" : "system",

    "createUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",

    "createUserName" : "System Admin",

    "lastUpdateDate" : "2013-10-07T05:39:52.302",

    "lastUpdateAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",

    "lastUpdateAccountIdentifier" : "system",

    "lastUpdateUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",

    "lastUpdateUserName" : "System Admin",

    "nameServerInterfaceSetInterfaces" : [ {

      "order" : 1,

      "name" : "test-ing nameserver_interface0",

      "ipv4Address" : "11.64.205.86",

      "ipv6Address" : "d602:9d85:325f:b46b:892e:b5:5f7b:ee4c"

    }, {

      "order" : 2,

      "name" : "test-ing nameserver_interface1",

      "ipv4Address" : "100.228.29.153",

      "ipv6Address" : "1495:44a3:ebd6:8445:450c:77aa:9c3f:e237"

    } ]

  }

}
```

6.2   Name Server Set List Command

This command is used to retrieve a list of name server set objects provisioned in the system.

6.2.1 Request

A request should be made to the specified URI including the indicated headers, and if required a request body in the format specified.

URI

The request URI is specified as follows:

HTTP Method	Request URI
GET	https://{service-address}/nameserversets/

Where:

Field	Description
service-address	The service address as described in section 2.2

Query Parameters

The query parameters below can be used with this command. All query parameters are optional and if none are specified all name server sets visible to the executing users account will be returned.

Parameter Name	Optional	Type	Description
searchName	Yes	string	Match all name server sets that have a name which case insensitively contains the string
searchNameServerInterfaceSetId	Yes	uuid	Match all name server sets that are associated with the name server interface set with this UUID (exact match)
searchStatus	Yes	string	Match all name server sets that have this status (exact match)

Request Headers

Only the standard request headers described in section 2.6 are supported.

Request Body

Not allowed for this command.

6.2.2 Response

The response will include a status code, response headers and in some case a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 200 (OK).

Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

A JSON representation of the list of name server set objects that match the search criteria with field as follows:

Field Name	Type	Description
@uri	string	The URI that corresponds to the returned list
nameServerSetList	NameServerSetRecord[]	A list of the name server sets that matched the search parameters
totalCount	integer	The total number of records contained in the returned list

A NameServerSetRecord has the following fields:

Field Name	Type	Description
@uri	string	The URI that corresponds to the full details of the object
id	uuid	The UUID of the object
name	string	The name of the name server set
createDate	timestamp	The date and time that the object was created
lastUpdateDate	timestamp	The date and time that object was last updated. This will be null if the object has never been updated

6.2.3 Example

Below is an example of a name server set list command request and response:

Request:

```
GET /nameserversets/?searchName=server&searchStatus=active HTTP/1.1

Client-Transaction-Id: 696adb6c-c1ff-46e1-a9bb-1bf72ace4e6e

Accept: application/json

User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)

Host: api.discoverydns.com

Connection: Keep-Alive
```

Response:

```
HTTP/1.1 200 OK

Content-Type: application/json

Cache-Control: private, no-transform, max-age=30

Date: Sun, 06 Oct 2013 23:56:01 GMT

Server-Transaction-Id: 4f3a488a-981c-45d7-9777-ea99fffa8e84

Client-Transaction-Id: 696adb6c-c1ff-46e1-a9bb-1bf72ace4e6e

Content-Length: 970
```

```
{
  "nameServerSets" : {
    "@uri" :
"https://api.discoverydns.com/nameserversets/?searchName=server&searchStatus=a
ctive ",
    "nameServerSetList" : [ {
      "@uri" : "https://api.discoverydns.com/nameserversets/c15871f7-1c13-
4429-9093-95b25b78594e",
      "id" : "c15871f7-1c13-4429-9093-95b25b78594e",
      "name" : "Test-ing Name.Server_Set0",
      "createDate" : "2013-10-07T10:56:00.584",
      "lastUpdateDate" : null
    }, {
      "@uri" : "https://api.discoverydns.com/nameserversets/6c2e4093-7ad2-
453c-a91e-b7ee5e52572e",
      "id" : "6c2e4093-7ad2-453c-a91e-b7ee5e52572e",
      "name" : "Test-ing Name.Server_Set1",
      "createDate" : "2013-10-07T10:56:00.606",
      "lastUpdateDate" : null
    }, {
      "@uri" : "https://api.discoverydns.com/nameserversets/42dd3870-98a6-
46f3-b923-3318c107ac02",
      "id" : "42dd3870-98a6-46f3-b923-3318c107ac02",
      "name" : "Test-ing Name.Server_Set2",
      "createDate" : "2013-10-07T00:56:00.616",
      "lastUpdateDate" : "2013-10-07T05:39:52.302",
    } ],
    "totalCount" : 3
  }
}
```

7   Plan Commands

7.1   Plan Get Command

This command is used to retrieve the details of a plan object provisioned in the system.

7.1.1   Request

A request should be made to the specified URI including the indicated headers, and if required a request body in the format specified.

URI

The request URI is specified as follows:

HTTP Method	Request URI
GET	https://{service-address}/plans/{id-or-name}

Where:

Field	Description
service-address	The service address as described in section 2.2
id-or-name	The id or name of the plan whose details you want to retrieve

Query Parameters

Not allowed for this command.

Request Headers

Only the standard request headers described in section 2.6 are supported.

Request Body

Not allowed for this command.

7.1.2   Response

The response will include a status code, response headers and in some case a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 200 (OK).

Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

A JSON representation of the plan object with the following fields:

Field Name	Type	Description
@uri	string	The URI that can be used to obtain information about this object
id	uuid	The UUID of the object
version	integer	The current version of the object. This should be sent back to the server with any update commands for this object to ensure that concurrent modifications errors do not occur
name	string	The name of the plan
status	string	The current status of the plan
baseMonthlyRate	double	The monthly billing rate of the plan, this is represented in units of the currency of the plan
currency	string	The 3 letter currency code of the currency used for billing operations on this account
excessGraceMonths	integer	The number of months grace period allowed for the plan
excessGraceMonthsPeriod	integer	The number of months that the excess grace is counted over
trialPeriod	integer	The number of months trial allowed for zones using this plan
units	Unit[]	A list of the billing units that are associated with the plan
fetures	Feature[]	A list of the features which can be used with zones associated with this plan
createDate	timestamp	The date and time in UTC that this object was created
createAccountId	uuid	The UUID of the account which created the object
createAccountIdentifier	string	The identifier of the account which created the object
createUserId	uuid	The UUID of the user which created the object
createUserName	string	The name of the user which created the object
lastUpdateDate	timestamp	The date and time in UTC that this object was last updated, null if the object has never been updated
lastUpdateAccountId	uuid	The UUID of the account which last updated the object, null if the object has never been updated

Field Name	Type	Description
lastUpdateAccountIdentifier	string	The identifier of the account which last updated the object, null if the object has never been updated
lastUpdateUserId	uuid	The UUID of the user which last updated the object, null if the object has never been updated
lastUpdateUserName	string	The name of the user which last updated the object, null if the object has never been updated

The Unit object has the following fields:

Field Name	Type	Description
unitType	string	The type of the units. Examples of unit types include queries, resource records, zones etc
includedUnits	integer	The number of units of the specified type included in the base cost of the plan
excessUnitsBatchSize	integer	The number of units included in one 'batch' of excess units fees
excessUnitsBatchRate	double	The price charged per batch or part thereof excess units

The Feature object has the following fields:

Field Name	Type	Description
featureType	string	The type of the feature that zones are able to use if they are linked to this plan. Examples include branded name servers, DNSSEC, etc
additionalRate	double	An additional monthly rate (if any) that is added to the base rate if the specified feature is enabled on a zone that is associated with this plan

7.1.3 Example

Below is an example of a plan get command request and response:

Request:

```
GET /plans/786d87db-e4d2-4eb8-9709-755868528bdf HTTP/1.1

Client-Transaction-Id: 14804288-e7f9-47f4-b832-3a3c81ecc953

Accept: application/json

User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)

Host: api.discoverydns.com

Connection: Keep-Alive
```

Response:

```
HTTP/1.1 200 OK

Content-Type: application/json
```

```
Last-Modified: Sun, 06 Oct 2013 18:39:52 GMT

ETag: "0"

Cache-Control: private, no-transform, max-age=30

Date: Sun, 06 Oct 2013 18:39:52 GMT

Server-Transaction-Id: 5e2b0855-831e-4ced-a50f-1a926894ef0f

Client-Transaction-Id: 14804288-e7f9-47f4-b832-3a3c81ecc953

Content-Length: 1155


{
  "plan" : {
    "@uri" : "https://api.discoverydns.com/plans/786d87db-e4d2-4eb8-9709-
755868528bdf",

    "id" : "786d87db-e4d2-4eb8-9709-755868528bdf",

    "version" : 0,

    "name" : "testing-plan_.meh la0",

    "status" : "active",

    "baseMonthlyRate" : 1.0,

    "currency" : "AUD",

    "excessGraceMonths" : 2,

    "excessGraceMonthsPeriod" : 3,

    "trialPeriod" : 4,

    "createDate" : "2013-10-07T05:53:20.302",

    "createAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",

    "createAccountIdentifier" : "system",

    "createUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",

    "createUserName" : "System Admin",

    "lastUpdateDate" : "2013-10-07T05:53:20.302",

    "lastUpdateAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",

    "lastUpdateAccountIdentifier" : "system",

    "lastUpdateUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",

    "lastUpdateUserName" : "System Admin",

    "units" : [ {

      "unitType" : "queries",

      "includedUnits" : 0,

      "excessUnitsBatchSize" : 0,

      "excessUnitsBatchRate" : 0.0

    } ],

    "features" : [ {
```

```
      "featureType" : "brandedNameServers",

      "additionalRate" : 0.0

    } ]

  }

}
```

7.2   Plan List Command

This command is used to retrieve a list of plan objects provisioned in the system.

7.2.1   Request

A request should be made to the specified URI including the indicated headers, and if required a request body in the format specified.

URI

The request URI is specified as follows:

HTTP Method	Request URI
GET	https://{service-address}/plans/

Where:

Field	Description
service-address	The service address as described in section 2.2

Query Parameters

The query parameters below can be used with this command. All query parameters are optional and if none are specified all plans that are visible to the executing users account will be returned.

Parameter Name	Optional	Type	Description
searchName	Yes	string	Match all plans that have a name which case insensitively contains the string
searchStatus	Yes	string	Match all plans that have this status (exact match)

Request Headers

Only the standard request headers described in section 2.6 are supported.

Request Body

Not allowed for this command.

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7.2.2   Response

The response will include a status code, response headers and in some case a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 200 (OK).

Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

A JSON representation of the list of user objects that match the search criteria with field as follows:

Field Name	Type	Description
@uri	string	The URI that corresponds to the returned list
planList	PlanRecord[]	A list of the plans that matched the search parameters
totalCount	integer	The total number of records contained in the returned list

A PlanRecord has the following fields:

Field Name	Type	Description
@uri	string	The URI that corresponds to the full details of the object
id	uuid	The UUID of the object
name	string	The name of the plan
status	string	The status of the plan
createDate	timestamp	The date and time that the object was created
lastUpdateDate	timestamp	The date and time that object was last updated. This will be null if the object has never been updated

7.2.3   Example

Below is an example of a user list command request and response:

Request:

```
GET /plans/?searchStatus=active HTTP/1.1

Client-Transaction-Id: 84f3e229-eb0e-4fe1-a08e-40cb40cad2ce

Accept: application/json

User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)

Host: api.discoverydns.com
```

```
Connection: Keep-Alive
```

Response:

```
HTTP/1.1 200 OK

Content-Type: application/json

Cache-Control: private, no-transform, max-age=30

Date: Mon, 07 Oct 2013 13:42:32 GMT

Server-Transaction-Id: 468066a9-d892-4b97-a5d9-f8de5a9f4ed7

Client-Transaction-Id: 84f3e229-eb0e-4fe1-a08e-40cb40cad2ce

Content-Length: 986


{

  "plans" : {

    "@uri" : "https://api.discoverydns.com/plans/",

    "planList" : [ {

      "@uri" : "https://api.discoverydns.com/plans/66697e68-d6d6-4e29-8adc-
6337db256489",

      "id" : "66697e68-d6d6-4e29-8adc-6337db256489",

      "name" : "testing-plan_.meh la0",

      "status" : "active",

      "createDate" : "2013-10-08T00:42:32.270",

      "lastUpdateDate" : null

    }, {

      "@uri" : "https://api.discoverydns.com/plans/c6426a35-9435-4b66-9cf4-
3a046a946701",

      "id" : "c6426a35-9435-4b66-9cf4-3a046a946701",

      "name" : "testing-plan_.meh la1",

      "status" : "active",

      "createDate" : "2013-10-08T00:42:32.287",

      "lastUpdateDate" : null

    }, {

      "@uri" : "https://api.discoverydns.com/plans/e2a2d665-839d-4234-b0a8-
329b5000e1d6",

      "id" : "e2a2d665-839d-4234-b0a8-329b5000e1d6",

      "name" : "testing-plan_.meh la2",

      "status" : "active",

      "createDate" : "2013-10-08T00:42:32.297",

      "lastUpdateDate" : null

    } ],
```

```
    "totalCount" : 3
  }
}
```

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8 Zone Commands

8.1 Zone Get Command

This command is used to retrieve the details of a zone object provisioned in the system.

8.1.1 Request

A request should be made to the specified URI including the indicated headers, and if required a request body in the format specified.

URI

The request URI is specified as follows:

HTTP Method	Request URI
GET	https://{service-address}/zones/{id}

Where:

Field	Description
service-address	The service address as described in section 2.2
id	The id of the zone whose details you want to retrieve

Query Parameters

The query parameters below can be used with this command. All query parameters are optional and if none are specified the default representation of the zone's resource records will be returned.

Parameter Name	Optional	Type	Description
rdataFormat	Yes	string	If "raw", all the type-specific RData fields of each resource record will be returned in a single string "rdata" field that is as the resource record would be entered into a BIND compatiable zone file. Any other value for this parameter (or the absence of this parameter) will return resource records in their type specific format as described below.

Request Headers

Only the standard request headers described in section 2.6 are supported.

Request Body

Not allowed for this command.

8.1.2 Response

The response will include a status code, response headers and in some case a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 200 (OK).

Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

A JSON representation of the zone object with the following fields:

Field Name	Type	Description
@uri	string	The URI that can be used to obtain information about this object
id	uuid	The UUID of the object
version	integer	The current version of the object. This should be sent back to the server with any update commands for this object to ensure that concurrent modifications errors do not occur
name	string	The name of the zone
serial	integer	The serial number of the zone
brandedNameServers	boolean	Indicates if the zone is using the branded name server feature or not
dnssecSigned	boolean	Indicates if the zone is using the DNSSEC signing feature or not
group	string	The zone grouping code
nameServerSetId	uuid	The UUID of the name server set associated with this zone
nameServerSetName	string	The name of the associated name server set
nameServerInterfaceSetId	uuid	The UUID of the name server interface set associated with the zone
nameServerInterfaceSetName	string	The name of the associated name server interface set
planId	uuid	The UUID of the plan that the zone is currently on
planName	string	The name of the plan that the zone is currently on
sponsorAccountId	uuid	The UUID of the account which sponsors or 'owns' the zone
sponsorAccountIdentifier	string	The identifier of the account which sponsors the zone

delegationResourceRecords	ResourceRecord[]	The list of the resource records that are to be provide to the parent zone for the child zone delegation. This is typically the NS records and any required glue records
ddnsResourceRecords	ResourceRecord[]	The list of system generated resource records for the zone. This is typically the SOA and NS records
resourceRecords	ResourceRecord[]	The list of the user supplied (and modifiable) resource records associated with the zone
createDate	timestamp	The date and time in UTC that this object was created
createAccountId	uuid	The UUID of the account which created the object
createAccountIdentifier	string	The identifier of the account which created the object
createUserId	uuid	The UUID of the user which created the object
createUserName	string	The name of the user which created the object
lastUpdateDate	timestamp	The date and time in UTC that this object was last updated, null if the object has never been updated
lastUpdateAccountId	uuid	The UUID of the account which last updated the object, null if the object has never been updated
lastUpdateAccountIdentifier	string	The identifier of the account which last updated the object, null if the object has never been updated
lastUpdateUserId	uuid	The UUID of the user which last updated the object, null if the object has never been updated
lastUpdateUserName	string	The name of the user which last updated the object, null if the object has never been updated

The ResourceRecord object is a 'super type' covering all support resource records. Each of the support resource records and their fields are described in the tables below. . These specific formats will be used if the 'raw' value was not provided in the rdataFormat query parameter as described above:

SOA Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "SOA"
host	string	The host field of the SOA
admin	string	The email address field of the SOA
serial	integer	The serial number of the zone
refresh	integer	The refresh interval of the zone

retry	integer	The retry interval for the zone
expire	integer	The expire period for the zone
minimum	integer	The minimum ttl for the zone

Note: The values for the fields in the SOA are ignored by DiscoveryDNS and only useful if there are third party secondaries involved.

NS Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "NS"
target	string	The name of the name server being delegated to

A Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "A"
address	ipv4address	The IPv4 address for the A record

AAAA Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "AAAA"
address	ipv6address	The IPv6 address for the AAAA record

MX Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "MX"

| priority | integer | The priority for the mail server |
| target | string | The name of the mail server |

CNAME Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "CNAME"
target	string	The target of the CNAME record

SRV Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "SRV"
priority	integer	The priority for the record
weight	integer	The weight of the record
port	integer	The port of the service
target	string	The name of the target for the SRV record

TXT Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "TXT"
strings	string	The textual value for the record

PTR Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "PTR"
target	string	The target of the PTR record

DS Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "DS"
footprint (keyTag)*	integer	The keyTag of the DS resource record
algorithm	integer	The algorithm for the DS record
digestId (digestType)*	integer	The digest type for the DS record
digest	string	The actual digest value

Note: *The keyTag and digestType field names have been changed to align with the names used by the DNS Java library.

CERT Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "CERT"
certType	integer	The type of the CERT resource record
keyTag	integer	The key tag for the CERT resource record
algorithm	integer	The algorithm for the CERT record
cert	string	The actual certificate or CRL value of the CERT record

NAPTR Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "NAPTR"
order	integer	The order of the NAPTR record
preference	integer	The preference of the NAPTR record
flags	string	The flags for the NAPTR record
service	string	The service of the NAPTR record
regexp	string	The regexp for the NAPTR record
replacement	string	The replacement for the NAPTR record

SSHFP Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "SSHFP"
algorithm	integer	The algorithm code for the SSHFP
digestType	integer	The digest type for the SSHFP
fingerprint	string	The fingerprint value for the SSHFP

LOC Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "LOC"
size	string	The size value for the LOC record
hPrecision	string	The horizontal precision value for the LOC record
vPrecision	string	The vertical precision value for the LOC record
latitude	string	The latitude value for the LOC record
longitude	string	The longitude value for the LOC record
altitude	string	The altitude value for the LOC record

SPF Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record
type	string	The type of the resource record. For this record type it is the literal value "SPF"
strings	string	The textual value for the record

TLSA Record:

Field Name	Type	Description
name	string	The name of the resource record
class	string	The class of the resource record, currently the only support class is "IN"
ttl	integer	The ttl of the resource record

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type	string	The type of the resource record. For this record type it is the literal value "TLSA"
certificateUsage	integer	The certificate usage value for the record
selector	integer	The selector of the TLSA record
matchingType	integer	The matching type of the TLSA record
certificateAssociationData	string	The certificate date for the TLSA record

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8.1.3 Example

Below is an example of a zone get command request and response:

Request:

```
GET /zones/6d1a66d3-2307-4dde-8077-1ac6f6f3d244 HTTP/1.1

Client-Transaction-Id: 9b5cc71b-24ff-40ef-a801-9f9316bed583

Accept: application/json

User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)

Host: api.discoverydns.com

Connection: Keep-Alive
```

Response:

```
HTTP/1.1 200 OK

Content-Type: application/json

Last-Modified: Sun, 06 Oct 2013 18:39:52 GMT

ETag: "0"

Cache-Control: private, no-transform, max-age=30

Date: Sun, 06 Oct 2013 18:39:52 GMT

Server-Transaction-Id: 5e2b0855-831e-4ced-a50f-1a926894ef0f

Client-Transaction-Id: 9b5cc71b-24ff-40ef-a801-9f9316bed583

Content-Length: 5866


{
  "zone" : {
    "@uri" : "https://api.discoverydns.com/zones/6d1a66d3-2307-4dde-8077-
1ac6f6f3d244",
    "id" : "6d1a66d3-2307-4dde-8077-1ac6f6f3d244",
    "version" : 0,
    "name" : "example.com.au",
    "serial" : 1,
    "brandedNameServers" : false,
    "dnssecSigned" : true,
    "group" : "mygroup",
    "nameServerSetId" : "1646f4e7-36ce-4cb5-b9a0-9853c15fc195",
    "nameServerSetName" : "Test-ing Name.Server_Set0",
    "nameServerInterfaceSetId" : "292cf312-2dc4-4f4b-a273-63d072c98f03",
    "nameServerInterfaceSetName" : "Test-ing NameServer_Interfa.ceSet0",
```

```
"planId" : "2aa93a2a-914b-4107-9c34-864e991f6c86",

"planName" : "testing-plan_.meh la0",

"sponsorAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",

"sponsorAccountIdentifier" : "system",

"createDate" : "2013-10-07T07:46:29.901",

"createAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",

"createAccountIdentifier" : "system",

"createUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",

"createUserName" : "System Admin",

"lastUpdateDate" : "2013-10-07T07:46:29.927",

"lastUpdateAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",

"lastUpdateAccountIdentifier" : "system",

"lastUpdateUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",

"lastUpdateUserName" : "System Admin",
"delegationResourceRecords" : [ {        "name" : "www.example.com.au.",
  "class" : "IN",
  "ttl" : "3600",
  "type" : "A",
  "address" : "127.0.0.2"
}, {
  "name" : "www.example.com.au.",
  "class" : "IN",
  "ttl" : "3600",
  "type" : "NS",
  "target" : "ns1.hosting.com."
}, {
  "name" : "www.example.com.au.",
  "class" : "IN",
  "ttl" : "3600",
  "type" : "A",
  "address" : "127.0.0.1"
}, {
  "name" : "www.example.com.au.",
  "class" : "IN",
  "ttl" : "3600",
  "type" : "AAAA",
  "address" : "2001:dcd:2::5"
}, {
```

```json
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "AAAA",
    "address" : "2001:dcd:2::6"
} ],
"ddnsResourceRecords" : [ {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "A",
    "address" : "127.0.0.2"
}, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "NS",
    "target" : "ns1.hosting.com."
}, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "A",
    "address" : "127.0.0.1"
}, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "AAAA",
    "address" : "2001:dcd:2::5"
}, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "AAAA",
    "address" : "2001:dcd:2::6"
}, {
    "name" : "www.example.com.au.",
```

```
      "class" : "IN",

      "ttl" : "3600",

      "type" : "SOA",

      "host" : "w.au.",

      "admin" : "dns.ausregistry.net.au.",

      "serial" : "2061150353",

      "refresh" : "14400",

      "retry" : "3600",

      "expire" : "3600000",

      "minimum" : "14400"

    } ],

    "resourceRecords" : [ {

      "name" : "www.example.com.au.",

      "class" : "IN",

      "ttl" : "3600",

      "type" : "DS",

      "footprint" : "30909",

      "algorithm" : "8",

      "digestId" : "2",

      "digest" :
"E2D3C916F6DEEAC73294E8268FB5885044A833FC5459588F4A9184CFC41A5766"

    }, {

      "name" : "www.example.com.au.",

      "class" : "IN",

      "ttl" : "3600",

      "type" : "CERT",

      "certType" : "1",

      "keyTag" : "4761",

      "algorithm" : "5",

      "cert" : "MIIFfDCCBGSgAwIBAgICAIgwDQYJKoZIhvcNAQEFBQAwYjELMAkGA1UE"

    }, {

      "name" : "www.example.com.au.",

      "class" : "IN",

      "ttl" : "3600",

      "type" : "MX",

      "priority" : "10",

      "target" : "mx01.ausregistry.net.au."

    }, {
```

```
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "AAAA",
    "address" : "2001:dcd:2::5"
}, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "SSHFP",
    "algorithm" : "2",
    "digestType" : "1",
    "fingerprint" : "290E37C5B5DB9A1C455E648A41AF3CC83F99F102"
}, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "NAPTR",
    "order" : "10",
    "preference" : "101",
    "flags" : "u",
    "service" : "E2U+h323",
    "regexp" : "!^.*$!h323:info@example.com!",
    "replacement" : "."
}, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "CNAME",
    "target" : "www.someother.thing.net."
}, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "LOC",
    "size" : "0m",
    "hPrecision" : "0m",
    "vPrecision" : "0m",
```

```
    "latitude" : "51 30 12.748 N",

    "longitude" : "0 7 39.611 W",

    "altitude" : "0m"

  }, {

    "name" : "www.example.com.au.",

    "class" : "IN",

    "ttl" : "3600",

    "type" : "SOA",

    "host" : "w.au.",

    "admin" : "dns.ausregistry.net.au.",

    "serial" : "2061150353",

    "refresh" : "14400",

    "retry" : "3600",

    "expire" : "3600000",

    "minimum" : "14400"

  }, {

    "name" : "www.example.com.au.",

    "class" : "IN",

    "ttl" : "3600",

    "type" : "SRV",

    "priority" : "0",

    "weight" : "5",

    "port" : "5060",

    "target" : "sipserver.example.com."

  }, {

    "name" : "www.example.com.au.",

    "class" : "IN",

    "ttl" : "3600",

    "type" : "NS",

    "target" : "ns1.hosting.com."

  }, {

    "name" : "www.example.com.au.",

    "class" : "IN",

    "ttl" : "3600",

    "type" : "SPF",

    "strings" : "v=spf1 ip4:192.0.2.0/24 ip4:198.51.100.123 a -all"

  }, {

    "name" : "www.example.com.au.",
```

```
      "class" : "IN",

      "ttl" : "3600",

      "type" : "TXT",

      "strings" : "v=spf1 mx include:sendgrid.net
include:spf.ausregistry.net.au -all"

    }, {

      "name" : "www.example.com.au.",

      "class" : "IN",

      "ttl" : "3600",

      "type" : "A",

      "address" : "127.0.0.1"

    }, {

      "name" : "www.example.com.au.",

      "class" : "IN",

      "ttl" : "3600",

      "type" : "TLSA",

      "certificateUsage" : "3",

      "selector" : "0",

      "matchingType" : "1",

      "certificateAssociationData" :
"54F3FD877632A41C65B0FF4E50E254DD7D1873486231DC6CD5E9C1C1963DE4E"

    }, {

      "name" : "www.example.com.au.",

      "class" : "IN",

      "ttl" : "3600",

      "type" : "PTR",

      "target" : "www.blah.com.au."

    } ]

  }

}
```

8.2   Zone List Command

This command is used to retrieve a list of zone objects provisioned in the system.

8.2.1   Request

A request should be made to the specified URI including the indicated headers and, if required, a request body in the format specified.

URI

The request URI is specified as follows:

HTTP Method	Request URI
GET	https://{service-address}/zones/

Where:

Field	Description
service-address	The service address as described in section 2.2

Query Parameters

The query parameters below can be used with this command. All query parameters are optional and if none are specified all plans that are visible to the executing users account will be returned.

Parameter Name	Optional	Type	Description
searchName	Yes	string	Match all zones that have a name which matches the string, depending on the searchNameSearchType.
searchNameSearchType	Yes	string	The type of matching to perform on name. Must be either "exactMatch", "contains" or "beginsWith".
searchNameServerSetId	Yes	uuid	Match all zones that are associated with the name server set with this UUID (exact match)
searchNameServerInterfaceSetId	Yes	uuid	Match all zones that are associated with the name server interface set with this UUID (exact match)
searchGroup	Yes	string	Match all zones that use this group name (exact match)
searchBrandedNameServers	Yes	boolean	Match all zones that use the branded name servers feature
searchDNSSECSigned	Yes	boolean	Match all zones that use the DNSSEC signing feature

Request Headers

Only the standard request headers described in section 2.6 are supported.

Request Body

Not allowed for this command.

8.2.2   Response

The response will include a status code, response headers and in some case a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 200 (OK).

Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

A JSON representation of the list of user objects that match the search criteria with field as follows:

Field Name	Type	Description
@uri	string	The URI that corresponds to the returned list
zoneList	ZoneRecord[]	A list of the zones that matched the search parameters
totalCount	integer	The total number of records contained in the returned list

A ZoneRecord has the following fields:

Field Name	Type	Description
@uri	string	The URI that corresponds to the full details of the object
id	uuid	The UUID of the object
name	string	The name of the plan
status	string	The status of the plan
createDate	timestamp	The date and time that the object was created
lastUpdateDate	timestamp	The date and time that object was last updated. This will be null if the object has never been updated

8.2.3 Example

Below is an example of a user list command request and response:

Request:

```
GET /zones/?searchBrandedNameServers=false HTTP/1.1

Client-Transaction-Id: 4d498ccc-f2aa-4e90-aa91-7feced8bfd23

Accept: application/json

User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)

Host: api.discoverydns.com

Connection: Keep-Alive
```

Response:

```
HTTP/1.1 200 OK

Content-Type: application/json

Cache-Control: private, no-transform, max-age=30

Date: Mon, 07 Oct 2013 13:58:39 GMT
```

PUBLIC

```
Server-Transaction-Id: 563b1d74-9b61-486d-b142-08b07d2d7934

Client-Transaction-Id: 4d498ccc-f2aa-4e90-aa91-7feced8bfd23

Content-Length: 1085


{
  "zones" : {
    "@uri" :
"https://api.discoverydns.com/zones/?searchBrandedNameServers=false",
    "zoneList" : [ {
      "@uri" : "https://api.discoverydns.com/zones/fbac657e-e280-4a77-8c36-
e6d13b6fa663",
      "id" : "fbac657e-e280-4a77-8c36-e6d13b6fa663",
      "name" : "testingzone0.com",
      "brandedNameServers" : false,
      "dnssecSigned" : true,
      "createDate" : "2013-10-08T00:58:38.645",
      "lastUpdateDate" : null
    }, {
      "@uri" : "https://api.discoverydns.com/zones/daee0537-8f54-40d3-8dd2-
574c430f9256",
      "id" : "daee0537-8f54-40d3-8dd2-574c430f9256",
      "name" : "testingzone1.com",
      "brandedNameServers" : false,
      "dnssecSigned" : true,
      "createDate" : "2013-10-08T00:58:38.686",
      "lastUpdateDate" : null
    }, {
      "@uri" : "https://api.discoverydns.com/zones/a0c2c6ab-5bfd-4fad-a90c-
06be5eee2bd6",
      "id" : "a0c2c6ab-5bfd-4fad-a90c-06be5eee2bd6",
      "name" : "testingzone2.com",
      "brandedNameServers" : false,
      "dnssecSigned" : true,
      "createDate" : "2013-10-08T00:58:38.709",
      "lastUpdateDate" : null
    } ],
    "totalCount" : 3
  }
}
```

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8.3 Zone Create Command

This command is used to provision a zone object in the system.

8.3.1 Request

A request should be made to the specified URI including the indicated headers, and if required a request body in the format specified.

URI

The request URI is specified as follows:

HTTP Method	Request URI
GET	https://{service-address}/zones/

Where:

Field	Description
service-address	The service address as described in section 2.2

Query Parameters

The query parameters below can be used with this command. All query parameters are optional and if none are specified the default representation of the zone's resource records will be returned in the response.

Parameter Name	Optional	Type	Description
rdataFormat	Yes	string	If "raw", all the type-specific RData fields of each resource record will be returned in a single string "rdata" field that is as the resource record would be entered into a BIND compatiable zone file. Any other value for this parameter (or the absence of this parameter) will return resource records in their type specific format as described below.

Request Headers

Aside from the standard request headers described in section 2.6 the following additional headers are supported:

Header	Required	Custom Header	Description
X-Requested-By	Yes	Yes	This header simply needs to be set to an arbitrary string value. It is used as a measure to help prevent cross site scripting attacks on the API
Content-Type	Yes	No	This specified the type of the content included in the request body. Currently this must always be 'application/json'
Transfer-Encoding	No (Yes if content length not supplied)	No	"chunked" encoding is supported (but not required)

| Content-Length | No (Yes if chunked encoding not used) | No | The length of the entity body |

Request Body

A JSON representation of the details of the zone object that is to be created with the following fields:

Field Name	Optional	Type	Description
name	No	string	The name of the zone that is to be created
brandedNameServers	No	boolean	Whether or not the branded name servers feature is to be used for the zone
planId	No	uuid	The UUID of the plan that is to be linked to the zone
group	Yes	string	The grouping string for the grouping feature of the domain if desired
nameServerSetId	No	uuid	The UUID of the name server set that is to be used for hosting the zone

8.3.2   Response

The response will include a status code, response headers and in some case a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 201 (CREATED).

Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

A JSON representation of the created zone object with the following fields:

Field Name	Type	Description
@uri	string	The URI that can be used to obtain information about this object
id	uuid	The UUID of the object
version	integer	The current version of the object. This should be sent back to the server with any update commands for this object to ensure that concurrent modifications errors do not occur
name	string	The name of the zone
serial	integer	The serial number of the zone
brandedNameServers	boolean	Indicates if the zone is using the branded name server feature or not

dnssecSigned	boolean	Indicates if the zone is using the DNSSEC signing feature or not
group	string	The zone grouping code
nameServerSetId	uuid	The UUID of the name server set associated with this zone
nameServerSetName	string	The name of the associated name server set
nameServerInterfaceSetId	uuid	The UUID of the name server interface set associated with the zone
nameServerInterfaceSetName	string	The name of the associated name server interface set
planId	uuid	The UUID of the plan that the zone is currently on
planName	string	The name of the plan that the zone is currently on
sponsorAccountId	uuid	The UUID of the account which sponsors or 'owns' the zone
sponsorAccountIdentifier	string	The identifier of the account which sponsors the zone
delegationResourceRecords	ResourceRecord[]	The list of the resource records that are to be provide to the parent zone for the child zone delegation. This is typically the NS records and any required glue records
ddnsResourceRecords	ResourceRecord[]	The list of system generated resource records for the zone. This is typically the SOA and NS records
resourceRecords	ResourceRecord[]	The list of the user supplied (and modifiable) resource records associated with the zone
createDate	timestamp	The date and time in UTC that this object was created
createAccountId	uuid	The UUID of the account which created the object
createAccountIdentifier	string	The identifier of the account which created the object
createUserId	uuid	The UUID of the user which created the object
createUserName	string	The name of the user which created the object
lastUpdateDate	timestamp	The date and time in UTC that this object was last updated, null if the object has never been updated
lastUpdateAccountId	uuid	The UUID of the account which last updated the object, null if the object has never been updated
lastUpdateAccountIdentifier	string	The identifier of the account which last updated the object, null if the object has never been updated
lastUpdateUserId	uuid	The UUID of the user which last updated the object, null if the object has never been updated

lastUpdateUserName	string	The name of the user which last updated the object, null if the object has never been updated

The ResourceRecord object is a 'super type' covering all support resource records, it is detailed in the Zone Get Command specified in section 8.1.

8.3.3 Example

Below is an example of a zone create command request and response:

Request:

```
POST /zones/ HTTP/1.1

Accept: application/json

Client-Transaction-Id: fd0c4e2c-fc72-4242-b0d7-3cc922c9a86b

Content-Type: application/json

X-Requested-By: DiscoveryDNS Reseller API Client

User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)

Host: api.discoverydns.com

Connection: Keep-Alive

Content-Length: 234


{
  "zoneCreate" : {
    "name" : "example.com.au",
    "brandedNameServers" : true,
    "group" : "mygroup",
    "nameServerSetId" : "75dc78a1-97b6-4b72-9a3d-7bf66d48746d",
    "planId" : "43915703-6bd2-4ba9-af0a-ea590be939db"
  }
}
```

Response:

```
HTTP/1.1 200 OK

Content-Type: application/json

Last-Modified: Sun, 06 Oct 2013 18:39:52 GMT

ETag: "0"

Cache-Control: private, no-transform, max-age=30

Date: Sun, 06 Oct 2013 18:39:52 GMT

Server-Transaction-Id: 5e2b0855-831e-4ced-a50f-1a926894ef0f

Client-Transaction-Id: 9b5cc71b-24ff-40ef-a801-9f9316bed583
```

```
Content-Length: 5866


{
  "zone" : {
    "@uri" : "https://api.discoverydns.com/zones/01c7c0eb-3859-43a4-b302-
972a42949e2c",
    "id" : "01c7c0eb-3859-43a4-b302-972a42949e2c",
    "version" : 0,
    "name" : "example.com.au",
    "serial" : 1,
    "brandedNameServers" : true,
    "dnssecSigned" : false,
    "group" : "mygroup",
    "nameServerSetId" : "75dc78a1-97b6-4b72-9a3d-7bf66d48746d",
    "nameServerSetName" : "Test-ing Name.Server_Set0",
    "nameServerInterfaceSetId" : "3172a76f-f9f0-40b8-93ea-2fbe4590e293",
    "nameServerInterfaceSetName" : "Test-ing NameServer_Interfa.ceSet0",
    "planId" : "43915703-6bd2-4ba9-af0a-ea590be939db",
    "planName" : "testing-plan_.meh la0",
    "sponsorAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",
    "sponsorAccountIdentifier" : "system",
    "createDate" : "2013-10-08T02:01:05.920",
    "createAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",
    "createAccountIdentifier" : "system",
    "createUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",
    "createUserName" : "System Admin",
    "lastUpdateDate" : null,
    "lastUpdateAccountId" : null,
    "lastUpdateAccountIdentifier" : null,
    "lastUpdateUserId" : null,
    "lastUpdateUserName" : null,
    "delegationResourceRecords" : [ {
      "name" : "www.example.com.au.",
      "class" : "IN",
      "ttl" : "3600",
      "type" : "A",
      "address" : "127.0.0.2"
    }, {
```

```
    "name" : "www.example.com.au.",

    "class" : "IN",

    "ttl" : "3600",

    "type" : "NS",

    "target" : "ns1.hosting.com."

}, {

    "name" : "www.example.com.au.",

    "class" : "IN",

    "ttl" : "3600",

    "type" : "A",

    "address" : "127.0.0.1"

}, {

    "name" : "www.example.com.au.",

    "class" : "IN",

    "ttl" : "3600",

    "type" : "AAAA",

    "address" : "2001:dcd:2::5"

}, {

    "name" : "www.example.com.au.",

    "class" : "IN",

    "ttl" : "3600",

    "type" : "AAAA",

    "address" : "2001:dcd:2::6"

} ],

"ddnsResourceRecords" : [ {

    "name" : "example.com.au.",

    "class" : "IN",

    "ttl" : "3600",

    "type" : "NS",

    "target" : "testingprefix2.example.com.au."

}, {

    "name" : "example.com.au.",

    "class" : "IN",

    "ttl" : "3600",

    "type" : "SOA",

    "host" : "testingprefix1.example.com.au.",

    "admin" : "dnsmaster.example.com.au.",

    "serial" : "1",
```

```
      "refresh" : "43200",
      "retry" : "600",
      "expire" : "1209600",
      "minimum" : "600"
    }, {
      "name" : "example.com.au.",
      "class" : "IN",
      "ttl" : "3600",
      "type" : "NS",
      "target" : "testingprefix1.example.com.au."
    }, {
      "name" : "testingprefix1.example.com.au.",
      "class" : "IN",
      "ttl" : "3600",
      "type" : "A",
      "address" : "55.209.212.66"
    }, {
      "name" : "testingprefix1.example.com.au.",
      "class" : "IN",
      "ttl" : "3600",
      "type" : "AAAA",
      "address" : "56d4:b70d:ac63:1add:19e1:2827:6865:1e75"
    }, {
      "name" : "testingprefix2.example.com.au.",
      "class" : "IN",
      "ttl" : "3600",
      "type" : "AAAA",
      "address" : "da30:fbca:cb38:6272:2778:744a:cb7c:c9c1"
    }, {
      "name" : "testingprefix2.example.com.au.",
      "class" : "IN",
      "ttl" : "3600",
      "type" : "A",
      "address" : "35.53.132.162"
    } ],
    "resourceRecords" : [ ]
  }
}
```

8.4   Zone Update Command

This command is used to update a zone object that is provisioned in the system.

8.4.1   Request

A request should be made to the specified URI including the indicated headers and, if required, a request body in the format specified.

URI

The request URI is specified as follows:

HTTP Method	Request URI
GET	https://{service-address}/zones/{id}

Where:

Field	Description
service-address	The service address as described in section 2.2
id	The id of the zone for which details you want to update

Query Parameters

The query parameters below can be used with this command. All query parameters are optional and if none are specified the default representation of the zone's resource records will be returned in the response.

Parameter Name	Optional	Type	Description
rdataFormat	Yes	string	If "raw", all the type-specific RData fields of each resource record will be returned in a single string "rdata" field that is as the resource record would be entered into a BIND compatiable zone file. Any other value for this parameter (or the absence of this parameter) will return resource records in their type specific format as described below.

Request Headers

Aside from the standard request headers described in section 2.6 the following additional headers are supported:

Header	Required	Custom Header	Description
X-Requested-By	Yes	Yes	This header simply needs to be set to an arbitrary string value. It is used as a measure to help prevent cross site scripting attacks on the API
Content-Type	Yes	No	This specified the type of the content included in the request body. Currently this must always be 'application/json'

| Transfer-Encoding | No (Yes if content length not supplied) | No | "chunked" encoding is supported (but not required) |
| Content-Length | No (Yes if chunked encoding not used) | No | The length of the entity body |

Request Body

A JSON representation of the details of the zone object that are to be updated with the fields specified below. It is important to remember that this is a replace, so all fields will be updated to those supplied, with 'nulls' being assumed for fields not provided.

Header	Optional	Type	Description
id	No	uuid	The name of the zone that is to be created
version	No	integer	The version of the zone object you intend to update
brandedNameServers	No	boolean	Whether or not the branded name servers feature is to be used for the zone
planId	No	uuid	The UUID of the plan that is to be linked to the zone
group	Yes	string	The grouping string for the grouping feature of the domain if desired
nameServerSetId	No	uuid	The UUID of the name server set that is to be used for hosting the zone

8.4.2 Response

The response will include a status code, response headers and in some case a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 200 (OK).

Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

A JSON representation of the updated zone object with the following fields:

Field Name	Type	Description
@uri	string	The URI that can be used to obtain information about this object
id	uuid	The UUID of the object

version	integer	The current version of the object. This should be sent back to the server with any update commands for this object to ensure that concurrent modifications errors do not occur
name	string	The name of the zone
serial	integer	The serial number of the zone
brandedNameServers	boolean	Indicates if the zone is using the branded name server feature or not
dnssecSigned	boolean	Indicates if the zone is using the DNSSEC signing feature or not
group	string	The zone grouping code
nameServerSetId	uuid	The UUID of the name server set associated with this zone
nameServerSetName	string	The name of the associated name server set
nameServerInterfaceSetId	uuid	The UUID of the name server interface set associated with the zone
nameServerInterfaceSetName	string	The name of the associated name server interface set
planId	uuid	The UUID of the plan that the zone is currently on
planName	string	The name of the plan that the zone is currently on
sponsorAccountId	uuid	The UUID of the account which sponsors or 'owns' the zone
sponsorAccountIdentifier	string	The identifier of the account which sponsors the zone
delegationResourceRecords	ResourceRecord[]	The list of the resource records that are to be provide to the parent zone for the child zone delegation. This is typically the NS records and any required glue records
ddnsResourceRecords	ResourceRecord[]	The list of system generated resource records for the zone. This is typically the SOA and NS records
resourceRecords	ResourceRecord[]	The list of the user supplied (and modifiable) resource records associated with the zone
createDate	timestamp	The date and time in UTC that this object was created
createAccountId	uuid	The UUID of the account which created the object
createAccountIdentifier	string	The identifier of the account which created the object
createUserId	uuid	The UUID of the user which created the object
createUserName	string	The name of the user which created the object
lastUpdateDate	timestamp	The date and time in UTC that this object was last updated, null if the object has never been updated

lastUpdateAccountId	uuid	The UUID of the account which last updated the object, null if the object has never been updated
lastUpdateAccountIdentifier	string	The identifier of the account which last updated the object, null if the object has never been updated
lastUpdateUserId	uuid	The UUID of the user which last updated the object, null if the object has never been updated
lastUpdateUserName	string	The name of the user which last updated the object, null if the object has never been updated

The ResourceRecord object is a 'super type' covering all support resource records; it is detailed in the Zone Get Command specified in section 8.1.

8.4.3 Example

Below is an example of a zone update command request and response:

Request:

```
PUT /zones/73bb9df3-191b-4ad6-9e6b-ed9eaf68d8ea HTTP/1.1

Accept: application/json

Client-Transaction-Id: bb43ab62-a093-475c-8252-1abac0eb8ec7

Content-Type: application/json

X-Requested-By: DiscoveryDNS Reseller API Client

User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)

Host: api.discoverydns.com

Connection: Keep-Alive

Content-Length: 222


{
  "zoneUpdate" : {
    "version" : 0,
    "brandedNameServers" : true,
    "group" : "mygroup",
    "nameServerSetId" : "a2624aec-b186-4323-b8b5-2e27645cce03",
    "planId" : "cef85578-ee5a-4b0f-b77a-e45d713bccb7"
  }
}
```

Response:

```
HTTP/1.1 200 OK

Content-Type: application/json
```

```
Last-Modified: Mon, 07 Oct 2013 15:39:35 GMT

ETag: "1"

Cache-Control: private, no-transform, max-age=30

Date: Mon, 07 Oct 2013 15:39:35 GMT

Server-Transaction-Id: 6bd22485-a8fa-4beb-8aee-3dc9ea02e7b8

Client-Transaction-Id: bb43ab62-a093-475c-8252-1abac0eb8ec7

Content-Length: 2988


{

  "zone" : {

    "@uri" : "https://api.discoverydns.com/zones/73bb9df3-191b-4ad6-9e6b-
ed9eaf68d8ea",

    "id" : "73bb9df3-191b-4ad6-9e6b-ed9eaf68d8ea",

    "version" : 1,

    "name" : "testingzone0.com",

    "serial" : 2,

    "brandedNameServers" : true,

    "dnssecSigned" : false,

    "group" : "mygroup",

    "nameServerSetId" : "a2624aec-b186-4323-b8b5-2e27645cce03",

    "nameServerSetName" : "Test-ing Name.Server_Set2",

    "nameServerInterfaceSetId" : "8b9b3487-9e3b-4f65-a453-b18cf3fea033",

    "nameServerInterfaceSetName" : "Test-ing NameServer_Interfa.ceSet0",

    "planId" : "cef85578-ee5a-4b0f-b77a-e45d713bccb7",

    "planName" : "testing-plan_.meh la1",

    "sponsorAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",

    "sponsorAccountIdentifier" : "system",

    "createDate" : "2013-10-08T02:39:34.229",

    "createAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",

    "createAccountIdentifier" : "system",

    "createUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",

    "createUserName" : "System Admin",

    "lastUpdateDate" : "2013-10-08T02:39:35.030",

    "lastUpdateAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",

    "lastUpdateAccountIdentifier" : "system",

    "lastUpdateUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",

    "lastUpdateUserName" : "System Admin",

    "delegationResourceRecords" : [ {
```

```
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "A",
    "address" : "127.0.0.2"
  }, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "NS",
    "target" : "ns1.hosting.com."
  }, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "A",
    "address" : "127.0.0.1"
  }, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "AAAA",
    "address" : "2001:dcd:2::5"
  }, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "AAAA",
    "address" : "2001:dcd:2::6"
  } ],
  "ddnsResourceRecords" : [ {
    "name" : "testingprefix2.testingzone0.com.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "A",
    "address" : "28.139.29.213"
  }, {
    "name" : "testingprefix2.testingzone0.com.",
```

```
    "class" : "IN",
    "ttl" : "3600",
    "type" : "AAAA",
    "address" : "e9af:3538:61b9:aabd:e0d0:d063:299e:50de"
  }, {
    "name" : "testingzone0.com.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "SOA",
    "host" : "testingprefix1.testingzone0.com.",
    "admin" : "dnsmaster.testingzone0.com.",
    "serial" : "2",
    "refresh" : "43200",
    "retry" : "600",
    "expire" : "1209600",
    "minimum" : "600"
  }, {
    "name" : "testingzone0.com.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "NS",
    "target" : "testingprefix1.testingzone0.com.
  }, {
    "name" : "testingprefix1.testingzone0.com.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "A",
    "address" : "253.23.114.37"
  }, {
    "name" : "testingprefix1.testingzone0.com.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "AAAA",
    "address" : "c1aa:8615:d789:a43e:bc5a:7cab:361a:47f7"
  }, {
    "name" : "testingzone0.com.",
    "class" : "IN",
    "ttl" : "3600",
```

```
      "type" : "NS",
      "target" : "testingprefix2.testingzone0.com."
    } ],
    "resourceRecords" : [ {
      "name" : "testingzone0.com.",
      "class" : "IN",
      "ttl" : "3600",
      "type" : "A",
      "address" : "1.2.3.4"
    }, {
      "name" : "testingzone0.com.",
      "class" : "IN",
      "ttl" : "3600",
      "type" : "NS",
      "target" : "target.com."
    } ]
  }
}
```

8.5   Zone Update Resource Records Command

This command is used to update the resource records associated with a zone object that is provisioned in the system.

8.5.1 Request

A request should be made to the specified URI including the indicated headers, and if required a request body in the format specified.

URI

The request URI is specified as follows:

HTTP Method	Request URI
GET	https://{service-address}/zones/{id}/resourcerecords/

Where:

Field	Description
service-address	The service address as described in section 2.2
id	The id of the zone whose resource records you want to update

Query Parameters

The query parameters below can be used with this command. All query parameters are optional and if none are specified the default representation of the zone's resource records will be returned in the response.

Parameter Name	Optional	Type	Description
rdataFormat	Yes	string	If "raw", all the type-specific RData fields of each resource record will be returned in a single string "rdata" field that is as the resource record would be entered into a BIND compatiable zone file. Any other value for this parameter (or the absence of this parameter) will return resource records in their type specific format as described below.

Request Headers

Aside from the standard request headers described in section 2.6 the following additional headers are supported:

Header	Required	Custom Header	Description
X-Requested-By	Yes	Yes	This header simply needs to be set to an arbitrary string value. It is used as a measure to help prevent cross site scripting attacks on the API
Content-Type	Yes	No	This specified the type of the content included in the request body. Currently this must always be 'application/json'
Transfer-Encoding	No (Yes if content length not supplied)	No	"chunked" encoding is supported (but not required)
Content-Length	No (Yes if chunked encoding not used)	No	The length of the entity body

Request Body

A JSON representation of the resource records that are to be set on the zone object using the fields specified below. It is important to remember that this is a replace, so all user resource records will be updated to those supplied.

Field Name	Optional	Type	Description
version	No	integer	The version of the zone object you intend to update
resourceRecords	No	ResourceRecord[]	The new set of use resource records you want to be associated with the zone

The ResourceRecord object is a 'super type' covering all support resource records; it is detailed in the Zone Get Command specified in section 8.1.

8.5.2 Response

The response will include a status code, response headers and in some case a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 200 (OK).

Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

A JSON representation of the updated zone object with the following fields:

Field Name	Type	Description
@uri	string	The URI that can be used to obtain the information about this object
id	uuid	The UUID of the object
version	integer	The current version of the object. This should be sent back to the server with any update commands for this object to ensure that concurrent modifications errors do not occur
name	string	The name of the zone
serial	integer	The serial number of the zone
brandedNameServers	boolean	Indicates if the zone is using the branded name server feature or not
dnssecSigned	boolean	Indicates if the zone is using the DNSSEC signing feature or not
group	string	The zone grouping code
nameServerSetId	uuid	The UUID of the name server set associated with this zone
nameServerSetName	string	The name of the associated name server set
nameServerInterfaceSetId	uuid	The UUID of the name server interface set associated with the zone
nameServerInterfaceSetName	string	The name of the associated name server interface set
planId	uuid	The UUID of the plan that the zone is currently on
planName	string	The name of the plan that the zone is currently on
sponsorAccountId	uuid	The UUID of the account which sponsors or 'owns' the zone
sponsorAccountIdentifier	string	The identifier of the account which sponsors the zone
delegationResourceRecords	ResourceRecord[]	The list of the resource records that are to be provide to the parent zone for the child zone delegation. This is typically the NS records and any required glue records
ddnsResourceRecords	ResourceRecord[]	The list of system generated resource records for the zone. This is typically the SOA and NS records
resourceRecords	ResourceRecord[]	The list of the user supplied (and modifiable) resource records associated with the zone
createDate	timestamp	The date and time in UTC that this object was created
createAccountId	uuid	The UUID of the account which created the object
createAccountIdentifier	string	The identifier of the account which created the object

createUserId	uuid	The UUID of the user which created the object
createUserName	string	The name of the user which created the object
lastUpdateDate	timestamp	The date and time in UTC that this object was last updated, null if the object has never been updated
lastUpdateAccountId	uuid	The UUID of the account which last updated the object, null if the object has never been updated
lastUpdateAccountIdentifier	string	The identifier of the account which last updated the object, null if the object has never been updated
lastUpdateUserId	uuid	The UUID of the user which last updated the object, null if the object has never been updated
lastUpdateUserName	string	The name of the user which last updated the object, null if the object has never been updated

The ResourceRecord object is a 'super type' covering all support resource records; it is detailed in the Zone Get Command specified in section 8.1.

8.5.3 Example

Below is an example of a zone update command request and response:

Request:

```
PUT /zones/41a6fe5c-96f2-427f-908d-55f0ba30331a/resourcerecords/ HTTP/1.1
Accept: application/json,application/json
Client-Transaction-Id: 21e88a2f-17bb-43f6-a5ad-04fe513878fd
Content-Type: application/json
X-Requested-By: DiscoveryDNS Reseller API Client
User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)
Transfer-Encoding: chunked
Host: api.discoverydns.com
Connection: Keep-Alive
Content-Length: 526

{
  "zoneUpdateResourceRecords" : {
    "version" : 0,
    "resourceRecords" : [ {
      "name" : "blah.example.com.au.",
      "class" : "IN",
```

```
      "ttl" : "3600",

      "type" : "NS",

      "target" : "ns1.hosting.com."

    }, {

      "name" : "www.example.com.au.",

      "class" : "IN",

      "ttl" : "3600",

      "type" : "AAAA",

      "address" : "2001:dcd:2::5"

    }, {

      "name" : "www.example.com.au.",

      "class" : "IN",

      "ttl" : "3600",

      "type" : "A",

      "address" : "127.0.0.1"

    } ]

  }

}
```

Response:

```
HTTP/1.1 200 OK

Content-Type: application/json

Last-Modified: Mon, 07 Oct 2013 15:56:01 GMT

ETag: "1"

Cache-Control: private, no-transform, max-age=30

Date: Mon, 07 Oct 2013 15:56:01 GMT

Server-Transaction-Id: 2ff4d20a-b719-4605-8346-318943fbedfa

Client-Transaction-Id: 21e88a2f-17bb-43f6-a5ad-04fe513878fd

Content-Length: 2219


{

  "zone" : {

    "@uri" : "https://api.discoverydns.com/zones/41a6fe5c-96f2-427f-908d-
55f0ba30331a",

    "id" : "41a6fe5c-96f2-427f-908d-55f0ba30331a",

    "version" : 1,

    "name" : "example.com.au",

    "serial" : 2,

    "brandedNameServers" : false,
```

```
"dnssecSigned" : true,
"group" : "mygroup",
"nameServerSetId" : "72e316bb-42b3-41b6-ac39-62b37f5d6a8c",
"nameServerSetName" : "Test-ing Name.Server_Set0",
"nameServerInterfaceSetId" : "9cbb4446-f3ca-4996-9100-7a8d6e16e3db",
"nameServerInterfaceSetName" : "Test-ing NameServer_Interfa.ceSet0",
"planId" : "34d70aa6-aaab-4392-b786-8835f208c30a",
"planName" : "testing-plan_.meh la0",
"sponsorAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",
"sponsorAccountIdentifier" : "system",
"createDate" : "2013-10-08T02:56:00.383",
"createAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",
"createAccountIdentifier" : "system",
"createUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",
"createUserName" : "System Admin",
"lastUpdateDate" : "2013-10-08T02:56:01.255",
"lastUpdateAccountId" : "f73af262-9531-11e2-9b25-2809b571161a",
"lastUpdateAccountIdentifier" : "system",
"lastUpdateUserId" : "ed848682-c1d9-11e2-86bc-e9b9e1409c4c",
"lastUpdateUserName" : "System Admin",
"delegationResourceRecords" : [ {
  "name" : "www.example.com.au.",
  "class" : "IN",
  "ttl" : "3600",
  "type" : "A",
  "address" : "127.0.0.2"
}, {
  "name" : "www.example.com.au.",
  "class" : "IN",
  "ttl" : "3600",
  "type" : "NS",
  "target" : "ns1.hosting.com."
}, {
  "name" : "www.example.com.au.",
  "class" : "IN",
  "ttl" : "3600",
  "type" : "A",
  "address" : "127.0.0.1"
```

```
  }, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "AAAA",
    "address" : "2001:dcd:2::5"
  }, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "AAAA",
    "address" : "2001:dcd:2::6"
  } ],
  "ddnsResourceRecords" : [ {
    "name" : "testingzone0.com.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "SOA",
    "host" : "host.com.",
    "admin" : "mail.com.",
    "serial" : "1",
    "refresh" : "2",
    "retry" : "3",
    "expire" : "4",
    "minimum" : "5"
  }, {
    "name" : "testingzone0.com.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "NS",
    "target" : "target2.com."
  } ],
  "resourceRecords" : [ {
    "name" : "blah.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "NS",
    "target" : "ns1.hosting.com."
```

```
  }, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "A",
    "address" : "127.0.0.1"
  }, {
    "name" : "www.example.com.au.",
    "class" : "IN",
    "ttl" : "3600",
    "type" : "AAAA",
    "address" : "2001:dcd:2::5"
  } ]
  }
}
```

8.6   Zone Delete Command

This command is used to delete a zone object provisioned in the system.

8.6.1 Request

A request should be made to the specified URI including the indicated headers, and if required a request body in the format specified.

URI

The request URI is specified as follows:

HTTP Method	Request URI
DELETE	https://{service-address}/zones/{id}

Where:

Field	Description
service-address	The service address as described in section 2.2
id	The id of the zone that you want to delete

Query Parameters

Not allowed for this command

Request Headers

Aside from the standard request headers described in section 2.6 the following additional headers are supported:

Header	Required	Custom Header	Description
X-Requested-By	Yes	Yes	This header simply needs to be set to an arbitrary string value. It is used as a measure to help prevent cross site scripting attacks on the API

Request Body

Not allowed for this command.

8.6.2 Response

The response will include a status code, response headers and in some case a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 204 (NO CONTENT).

Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

Not required for this command.

8.6.3 Example

Below is an example of a zone get command request and response:

Request:

```
DELETE /zones/94f1f3fb-d4a9-482c-9d74-7e95e647bbe2 HTTP/1.1

Client-Transaction-Id: ba7b4e7d-843c-4217-b868-ab6274ff57ba

X-Requested-By: DiscoveryDNS Reseller API Client

User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)

Host: api.discoverydns.com

Connection: Keep-Alive
```

Response:

```
HTTP/1.1 204 No Content

Cache-Control: private, no-transform, max-age=30

Date: Mon, 07 Oct 2013 16:34:09 GMT

Server-Transaction-Id: 486e426e-7406-4b39-984b-b2ab8b4188a7

Client-Transaction-Id: ba7b4e7d-843c-4217-b868-ab6274ff57ba
```

8.7 Zone Get Query Usage Command

This command is used to get the query usage records of a zone object that is provisioned in the system over a certain period of time.

8.7.1 Request

A request should be made to the specified URI including the indicated headers.

URI

The request URI is specified as follows:

HTTP Method	Request URI
GET	https://{service-address}/zones/{id}/queryUsage/

Where:

Field	Description
service-address	The service address as described in section 2.2
id	The id of the zone whose query usage you want to get

Query Parameters

The query parameters below can be used with this command.

Parameter Name	Optional	Type	Description
searchStartDate	No	timestamp	The start date (inclusive) of the period over which the zone query usage must be retrieved
searchEndDate	No	timestamp	The end date (inclusive) of the period over which the zone query usage must be retrieved
searchGranularity	No	string	The granularity of the search. Must be either "hourly", "daily" or "monthly"
searchGroupUsage	Yes	boolean	If true and the zone belongs to a zone group, the search will be made against the whole group

Request Headers

Only the standard request headers described in section 2.6 are supported.

Request Body

Not allowed for this command.

8.7.2 Response

The response will include a status code, response headers and a response body encoded according to the relevant header.

Status Code

On success this command will return http status code 200 (OK).

Response Headers

Only the standard response headers described in section 2.7 are returned.

Response Body

A JSON representation of the zone query usage with the following fields:

Field Name	Type	Description
@uri	string	The URI that can be used to obtain the information about this object's query usage
id	uuid	The UUID of the zone
totalRecordCount	integer	The total count of retrieved query usage records for the zone
zoneQueryUsageRecords	ZoneQueryUsageRecord[]	The list of retrieved query usage records for the zone

The ZoneQueryUsageRecord object is a special type, which fields are described in the table below:

Field Name	Type	Description
timestamp	timestamp	The start date of the time period the query usage record is for
count	integer	The count of queries for this zone received by the system during the time period

8.7.3 Example

Below is an example of a zone get query usage command request and response:

Request:

```
GET /zones/41a6fe5c-96f2-427f-908d-
55f0ba30331a/queryUsage?searchStartDate=2013-12-
20T00:00:00.000&searchEndDate=2013-12-
20T00:00:00.000&searchGranularity=hourly&searchGroupUsage=false HTTP/1.1

Client-Transaction-Id: 9b5cc71b-24ff-40ef-a801-9f9316bed583
```

discoverydns.com

```
Accept: application/json

User-Agent: Jersey/2.2 (Apache HttpClient 4.2.5)

Host: api.discoverydns.com

Connection: Keep-Alive
```

Response:

```
HTTP/1.1 200 OK

Content-Type: application/json

Cache-Control: private, no-transform, max-age=30

Date: Sun, 06 Oct 2013 18:39:52 GMT

Server-Transaction-Id: 5e2b0855-831e-4ced-a50f-1a926894ef0f

Client-Transaction-Id: 9b5cc71b-24ff-40ef-a801-9f9316bed583

Content-Length: 5866


{
  "zoneGetQueryUsage" : {
    "id" : "a5e086bc-78a9-41a2-ac71-20a5bebc44eb",
    "totalRecordCount" : 24,
    "@uri" : https://127.0.0.1:18443/zones/a5e086bc-78a9-41a2-ac71-
20a5bebc44eb/queryUsage?searchEndDate=2013-12-
20&searchGranularity=hourly&searchStartDate=2013-12-20&searchGroupUsage=false,
    "zoneQueryUsageRecords" : [ {
      "timestamp" : "2013-12-20T00:00:00.000",
      "count" : 3000
    }, {
      "timestamp" : "2013-12-20T01:00:00.000",
      "count" : 7000
    }, {
      "timestamp" : "2013-12-20T02:00:00.000",
      "count" : 11000
    }, {
      "timestamp" : "2013-12-20T03:00:00.000",
      "count" : 15000
    }, {
      "timestamp" : "2013-12-20T04:00:00.000",
      "count" : 15000
    }, {
      "timestamp" : "2013-12-20T05:00:00.000",
```

```
      "count" : 18000
    }, {
      "timestamp" : "2013-12-20T06:00:00.00",
      "count" : 10000
    }, {
      "timestamp" : "2013-12-20T07:00:00.000",
      "count" : 10000
    }, {
      "timestamp" : "2013-12-20T08:00:00.000",
      "count" : 12000
    }, {
      "timestamp" : "2013-12-20T09:00:00.000",
      "count" : 26000
    }, {
      "timestamp" : "2013-12-20T10:00:00.000",
      "count" : 14000
    }, {
      "timestamp" : "2013-12-20T11:00:00.000",
      "count" : 15000
    }, {
      "timestamp" : "2013-12-20T12:00:00.000",
      "count" : 16000
    }, {
      "timestamp" : "2013-12-20T13:00:00.000",
      "count" : 15000
    }, {
      "timestamp" : "2013-12-20T14:00:00.000",
      "count" : 15000
    }, {
      "timestamp" : "2013-12-20T15:00:00.000",
      "count" : 14000
    }, {
      "timestamp" : "2013-12-20T16:00:00.000",
      "count" : 11000
    }, {
      "timestamp" : "2013-12-20T17:00:00.000",
      "count" : 10000
    }, {
```

```
      "timestamp" : "2013-12-20T18:00:00.000",
      "count" : 2000
    }, {
      "timestamp" : "2013-12-20T19:00:00.000",
      "count" : 5000
    }, {
      "timestamp" : "2013-12-20T20:00:00.000",
      "count" : 10000
    }, {
      "timestamp" : "2013-12-20T21:00:00.000",
      "count" : 10000
    }, {
      "timestamp" : "2013-12-20T22:00:00.000",
      "count" : 3000
    }, {
      "timestamp" : "2013-12-20T23:00:00.000",
      "count" : 8000
    } ]
  }
}
```

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