

# Relevant Name Search

## API Guide

Version 2.0

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|                              |           |
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## Overview

Welcome to the RNS API Guide. This document will enable you to easily integrate with the RNS API service. Additionally, the provided details will allow you to quickly and effectively meet the needs of various business use cases. First, let's start out with a general overview.

The RNS service provides a fast and capable REST API. The *request* must be sent using a secure HTTP GET method, and the *response* is returned as a UTF-8 encoded JSON string.

RNS works to satisfy a number of different use cases by offering a flexible solution to a complex problem. It accomplishes this by utilizing multiple query parameters. Consequently, querying the RNS API service can potentially be more complicated and less straightforward than a typical REST API. Given that, it is important to be aware of the following:

- RNS only consists of one primary API command.
- RNS provides multiple query parameters for the above command, each having a unique effect on the resulting data values.
- Some query parameters have complex behaviors and care must be taken to implement them correctly.
- A careful balance of query parameters must be used in order to achieve desired data results.

This guide, then, attempts to be as thorough as possible, allowing you to integrate with our system quickly and recommend the best domain suggestions for your users.

## RNS User Guide

In addition to this API guide, we provide an RNS User Guide as well. The user guide provides higher level details about the RNS service, and it details specific use cases your company might want to take advantage of. We recommend using the RNS User Guide as a reference.

## RNS Customer Portal

We provide an easy-to-use customer portal, allowing you to configure vital data, manage your account, access our documentation, and contact customer support.

The RNS Customer Portal can be accessed at: <https://app.rns.domains/>

## RNS Customer Support

We are here to make your implementation experience as simple and seamless as possible. Please reach out to our customer support team if you have any questions, run into any problems, or have general feedback.

Email: [rnssupport@donuts.email](mailto:rnssupport@donuts.email)

# API Overview

Getting started with the RNS API is quite simple. This section provides details about connecting to our service, authentication, and SLA expectations.

## Endpoint and Query Structure

The endpoint for the RNS API Service is located at:

```
https://api.rns.domains
```

All RNS queries adhere to the following URL structure:

```
https://api.rns.domains/{command_name}?param1={param1_value}&param2={param2_value}
```

## Authentication

Each customer is provided a unique account name and password, and these values must be provided for every RNS API call. If they are not provided, or if the values are incorrect, then RNS will respond with an error, and the query will not be processed.

An example of a valid RNS API query containing authentication parameters might be the following:

```
https://api.rns.domains/recommend-domains?account=domains4all&password=*3GaQ(xb)Z&input=rnstest
```

# Request

This section provides details on making requests to the RNS API service. The *request* must be sent using a secure HTTP GET method.

## Commands

### Recommend Domains

We provide public documentation for only one RNS command: *Recommend Domains*. This command provides the primary functionality for our relevant domain search product. By utilizing different query parameter options and properly configuring your customer account, the Recommend Domains command will provide the results you need for almost all business use cases.

The API documentation provided throughout the rest of this document is dedicated solely to the Recommend Domains command. All details should be understood within that context.

Finally, if you determine that you have a use case for additional functionality not provided by the Recommend Domains command, then please contact RNS Customer Support. We'll be happy to work with you!

Email: [rnssupport@donuts.email](mailto:rnssupport@donuts.email)

## Request Parameters

This section provides details on all query parameters that can be used with the *Recommend Domains* API command. Implementation is straightforward for most parameters. However, some query parameters involve complex logic, and care needs to be taken when using them. In these situations, we recommend testing appropriately in order to achieve desired results.

**Important Note:** All request parameters are *case-insensitive*. The parameters provided below are displayed in camelCase for readability purposes only.

| Name                 | Implementation   | Description   |
|----------------------|--|---|
| account              | <p><u>Definition</u><br/>String<br/><i>Required</i></p> <p><u>Example</u><br/>domains4all</p>    | <p>Unique account identifier.</p> <p><u>Details</u><br/>This value can be retrieved from the RNS Customer Portal. Go to Account Management &gt; Account Details. The associated field name is "API Username".</p>   |
| password             | <p><u>Definition</u><br/>String<br/><i>Required</i></p> <p><u>Example</u><br/>2sr95*7je1)\$</p>  | <p>Unique account password.</p> <p><u>Details</u><br/>This value can be retrieved from the RNS Customer Portal. Go to Account Management &gt; Account Details. The associated field name is "API Password".</p>   |
| input                | <p><u>Definition</u><br/>String<br/><i>Required</i></p> <p><u>Example</u><br/>bestdomainname</p> | <p>The input value provided by the user. This is the search string from which recommended domains will be generated.</p>  |
| maxCount             | <p><u>Definition</u><br/>Integer ( 1 to 150 )<br/>Default: 10</p> <p><u>Example</u><br/>25</p>   | <p>The maximum number of domains that will be returned.</p> <p><u>Details</u><br/>It is not guaranteed that the number of returned domains will equal the <i>maxCount</i> value. The final number is dependant on query filtering behavior and domain availability.</p> |
| enhancedAvailability | <p><u>Definition</u><br/>Integer<br/>Enum: 0, 1</p>  | <p>Ensures that all returned domains are available for registration.</p>  |

|           |  |   |
|-----------|--|---|
|           | <p><i>Default: 0</i></p> <p><u>Values:</u><br/> <i>0: Disabled</i><br/> <i>1: Enabled</i></p> <p><u>Example</u><br/> <i>1</i></p>  | <p><u>Details</u><br/> Performs a DNS availability check for all recommended domains, until the <i>maxCount</i> value has been satisfied.</p> <p><u>Warning</u><br/> Expect increased latencies when enabled. Test appropriately.</p>   |
| onlyTLDs  | <p><u>Definition</u><br/> String (comma-separated list)</p> <p><u>Sub-Parameters</u><br/> {tld name}<br/> String<br/> <b>Required</b><br/> {tld value}<br/> Double ( 0.0 to 1.0 )<br/> Optional</p> <p><u>Example</u><br/> <i>live,life,today</i><br/> <i>live:0.95,life:0.85,today:0.70</i></p> | <p>Domains are returned for the provided TLDs only. An optional TLD <i>value</i> can be provided.</p> <p><u>Details</u><br/> <i>onlyTLDs</i> requires passing a list of TLDs. Each TLD must be separated by a comma. It supports optionally passing a TLD <i>value</i>, separated by a colon (":").</p> <p>If a <i>value</i> is not provided, then RNS will use default internal relevancy logic to determine the best value for the TLD. If a value is provided, then the final value for the TLD will be manually set equal to this specified number, directly affecting the overall score of the domain.</p> <p><u>Warning</u><br/> Providing a value of 0.0 is not recommended, as this is equivalent to not passing an optional TLD value at all. This means that if you provide a value of 0.0, then RNS will use internal relevancy logic for calculating the best value of the TLD.</p> <p>If you desire to set the value of a TLD to the lowest possible number, then it is suggested to provide a value of 0.1.</p> |
| forceTLDs | <p><u>Definition</u><br/> String (comma-separated list)</p> <p><u>Sub-Parameters</u><br/> {tld name}<br/> String<br/> <b>Required</b><br/> {domain score}<br/> Double ( 0.0 to 1.0 )<br/> Optional<br/> Default: 1.0</p> <p><u>Example</u></p>   | <p>Ensures that at least one domain will be returned for the provided TLD(s). The domain score will be equal to the optional score value. (See RNS User Guide for more details.)</p> <p><u>Details</u><br/> <i>forceTLDs</i> requires passing a list of TLDs. Each TLD must be separated by a comma. It supports optionally passing a domain score, separated by a colon (":"). If provided, domains will be scored according to this domain score. (See RNS User Guide).</p>   |



|               |   |  |
|---------------|---|--|
|               | <p><i>com,net,org</i><br/><i>com:1.0,net:0.95,org:0.90</i></p>  | <p><b>Warning</b><br/><i>forceTLDs</i> does not guarantee position in the result list. It only guarantees domain score. A domain with the same score may appear in a higher position. (See RNS User Guide)</p>   |
| allowPremium  | <p><b>Definition</b><br/><i>Integer</i><br/><i>Enum: 0, 1, 2</i><br/><i>Default: 2</i></p> <p><b>Values</b><br/><i>0: None</i><br/><i>1: All</i><br/><i>2: Exact Match</i></p> <p><b>Example</b><br/><i>1</i></p> | <p>Determines whether or not premium domains should be included in the result list.</p> <p><b>Details</b><br/><i>allowPremium</i> supports three types of behavior. A value of zero (0) indicates that no premium domains will be returned. A value of one (1) indicates that, if any recommended domain happens to be premium, then it will be returned. A value of two (2) indicates that premium domains will only be returned where the SLD value of the <i>input</i> exactly matches the SLD value of the recommended domain.</p>   |
| allowPlatinum | <p><b>Definition</b><br/><i>Integer</i><br/><i>Enum: 0, 1, 2</i><br/><i>Default: 2</i></p> <p><b>Values</b><br/><i>0: None</i><br/><i>1: All</i><br/><i>2: Exact Match</i></p> <p><b>Example</b><br/><i>0</i></p> | <p>Determines whether or not platinum domains should be included in the result list. Platinum domains are typically sold at a higher price than premium domains.</p> <p><b>Details</b><br/><i>allowPlatinum</i> supports three types of behavior. A value of zero (0) indicates that no platinum domains will be returned. A value of one (1) indicates that if any recommended domains happen to be platinum, then they will be returned. A value of two (2) indicates that platinum domains will only be returned where the SLD value of the <i>input</i> exactly matches the SLD value of the recommended domain.</p> |
| allowAdult    | <p><b>Definition</b><br/><i>Integer</i><br/><i>Enum: 0, 1</i><br/><i>Default: 1</i></p> <p><b>Values</b><br/><i>0: Removed</i><br/><i>1: Included</i></p>   | <p>Determines whether or not domains containing adult SLDs should be returned.</p> <p><b>Details</b><br/>RNS maintains a database of words considered "adult". If an SLD for a domain contains an adult word, then the domain will not be marked as adult.</p>   |

|                |  |   |
|----------------|--|---|
|                | <p><u>Example</u><br/>1</p>  |   |
| allowOffensive | <p><u>Definition</u><br/><i>Integer</i><br/><i>Enum: 0, 1</i><br/><i>Default: 1</i></p> <p><u>Values</u><br/><i>0: Removed</i><br/><i>1: Included</i></p> <p><u>Example</u><br/>1</p>                  | <p>Determines whether or not domains containing offensive SLDs should be returned.</p> <p><u>Details</u><br/>RNS maintains a database of words considered "offensive". If an SLD for a domain contains an offensive word, then the domain will be marked as offensive.</p>  |
| clientIP       | <p><u>Definition</u><br/><i>String</i></p> <p><u>Values</u><br/><i>IPv4 Format (0.0.0.0 - 255.255.255.255)</i></p> <p><u>Example</u><br/>69.64.144.72</p>  | <p>User IP address used for geotargeted TLDs.</p> <p><u>Details</u><br/><i>clientIP</i> is the IPv4 address of the user performing the domain search. When provided, RNS increase the weight of geographic TLDs, based on the location of the user's IP address. Geotargeted TLDs can be configured in the RNS Customer Portal. Go to RNS Features &gt; Geotargeting TLDs.</p>  |
| usageld        | <p><u>Definition</u><br/><i>String</i></p> <p><u>Example</u><br/><i>mainSearchBar-v1.34</i></p>  | <p>Unique customer query identifier.</p> <p><u>Details</u><br/><i>usageld</i> is used for customer query tracking only. RNS performs no logic on this parameter. It simply returns the value provided by the customer in the output.</p>  |
| hints          | <p><u>Definition</u><br/><i>String (comma-separated list)</i></p> <p><u>Sub-Parameters</u><br/>{hint name}<br/><i>String</i><br/><i>Required</i></p> <p><u>Example</u><br/>hint-name-1,hint-name-2</p> | <p>Increases the <i>weight</i> for TLDs associated with the provided pre-defined Hint values.</p> <p><u>Details</u><br/><i>Hints</i> must be first configured in the RNS Customer Portal. Go to RNS Features &gt; Hints. (See User Guide)</p> <p><i>hints</i> requires passing a list of one or more Hint Names, exactly matching the values defined in the RNS Customer Portal. Each <i>hint</i> must be separated by a comma.</p> |
| addTLDs        | <p><u>Definition</u></p>   | <p>Result list can include recommended domains</p>  |

|              |  |   |
|--------------|--|---|
|              | <p><i>String (comma-separated list)</i></p> <p><u>Sub-Parameters</u><br/>         {tld name}<br/> <i>String</i><br/> <i>Required</i><br/>         {tld value}<br/> <i>Double ( 0.0 to 1.0 )</i><br/> <i>Optional</i></p> <p><u>Example</u><br/> <i>org.uk,net.uk,me.uk</i><br/> <i>org.uk:0.9,net.uk:0.89,me.uk:0.88</i></p> | <p>for the provided TLDs. An optional TLD <i>value</i> can be provided.</p> <p><u>Details</u><br/> <i>addTLDs</i> should only be used if you want to recommend domains for TLDs that are not in your Supported TLDs list, managed in the RNS Customer Portal. <i>addTLDs</i> requires passing a list of TLDs. Each TLD must be separated by a comma. It supports optionally passing a TLD <i>value</i>, separated by a colon (":").</p> <p>If a <i>value</i> is not provided, then RNS will use default internal relevancy logic to determine the best value for the TLD. If a value is provided, then the final value for the TLD will be manually set equal to this specified number, directly affecting the overall score of the domain.</p> <p><u>Warning</u><br/>         Providing a value of 0.0 is not recommended, as this is equivalent to not passing an optional TLD value at all. This means that if you provide a value of 0.0, then RNS will use internal relevancy logic for calculating the best value of the TLD.</p> <p>If you desire to set the value of a TLD to the lowest possible number, then it is suggested to provide a value of 0.1.</p> |
| removeTLDs   | <p><u>Definition</u><br/> <i>String (comma-separated list)</i></p> <p><u>Sub-Parameters</u><br/>         {tld name}<br/> <i>String</i><br/> <i>Required</i></p> <p><u>Example</u><br/> <i>fail,gripe,wtf</i></p>   | <p>Provided TLDs will be removed from the result list.</p> <p><u>Details</u><br/> <i>removeTLDs</i> requires passing a list of TLDs. Each TLD must be separated by a comma.</p>   |
| exactSldOnly | <p><u>Definition</u><br/> <i>Integer</i><br/> <i>Enum: 0, 1</i><br/> <i>Default: 1</i></p> <p><u>Values</u><br/>         0: Disabled<br/>         1: Enabled</p>   | <p>Ensures that the SLD of all domains in the result list must exactly match the SLD of the <i>input</i> value.</p> <p><u>Details</u><br/>         When <i>exactSldOnly</i> is enabled, only the TLDs for the recommended domains will vary in the result list.</p>   |

|         |   |  |
|---------|---|--|
|         | <p><u>Example</u><br/>0</p>   |  |
| v       | <p><u>Definition</u><br/><i>Integer</i><br/><i>Enum: 1, 2, 3</i><br/><i>Default: 1</i></p> <p><u>Values</u><br/>1: <i>Version 1</i><br/>2: <i>Version 2</i><br/>3: <i>Version 3 (recommended)</i></p> <p><u>Example</u><br/>3</p> | <p>Determines the format, structure, and metadata content returned in the response. <i>v</i> is shorthand for “version”.</p> <p><u>Details</u><br/>The output version <i>does not</i> affect domain recommendations or associated metadata values; they are the same for all versions. Different versions are provided in order to support reverse compatibility. It is recommended to use Version 3 in conjunction with an appropriate <i>verbose</i> value, as this provides the most up-to-date format, structure, and content.</p> |
| verbose | <p><u>Definition</u><br/><i>Integer</i><br/><i>Enum: 0, 1, 2</i><br/><i>Default: 0</i></p> <p><u>Values</u><br/>0: <i>Low</i><br/>1: <i>Medium</i><br/>2: <i>High</i></p> <p><u>Example</u><br/>2</p>                             | <p>Determines the amount (verbosity) of domain metadata returned.</p> <p><u>Details</u><br/>RNS returns metadata for each recommended domain. Depending on the specified <i>verbose</i> level, the output will contain more or less metadata. If you wish to track more metadata for your metrics, select a higher verbosity level.</p>  |

## Response

This section provides details on the response output for the API command *Recommend Domains*. All responses are returned as a UTF-8 encoded JSON string. Additionally, it is expected behavior that all responses are returned with an **HTTP 200 status code**, even if the output contains errors. This is very important to note and be aware of: It is expected that the application itself will not return an HTTP 4xx status code.

Additionally, as was defined in the [Request](#) section of this document, RNS allows you to return different output versions and verbosity. This creates many different output variants. In order to keep this guide as concise and focused as possible, the response section will only define output for the **latest version and highest verbosity** (v=3, verbose=2). We recommend using the latest version for your queries, as this provides the most up-to-date format, structure, and content. Additionally, we will use the highest verbosity to ensure we cover the largest scope of details. However, we recommend using a verbosity level that best fits your needs.

## API Response Definitions

The following sections detail the JSON API response. Each heading corresponds to a root level JSON field name. As defined in the introduction to this section, the response definitions will be detailed at the latest API version and highest verbosity level.

### Service

*Data Type: Object*

The *service* object generally contains information specific to the RNS service. These fields can most appropriately be used for debugging purposes. The following table of fields are associated with the response object *service*.

| Field       | Description   | Data Type              | Example           |
|-------------|---|------------------------|-------------------|
| serviceName | A debugging field. <i>serviceName</i> refers to the name of the internal RNS server that received the API call.                     | String                 | Hummingbird       |
| version     | A debugging field. <i>version</i> refers to the name of the version of RNS that received the API call.                              | String                 | 1.46.0.851        |
| instance    | A debugging field. <i>instance</i> refers to the name of the server instance that received API call.                                | String                 | 1-hummingbird-1   |
| command     | The name of the API command that was called.  | String                 | recommend-domains |
| elapsed     | A debugging field. <i>elapsed</i> refers to the total elapsed time (in milliseconds) that it took for RNS to process the API query. | Integer (non-negative) | 25                |

## Input

*Data Type: Object*

The *input* object consists of field names that correspond directly to specific API query parameters. The value of these fields are equal to one of two sources:

1. The parameter values provided by the customer.
2. The default values set by the RNS service.

For more information on these input fields, please see the [Request Parameters](#) section.

## Errors

*Data Type: Array*

The *errors* array will only contain values if one or more errors occurred during processing. If no errors were found, then the *errors* array will be empty.

Important Note: If an expected error is encountered, then the *output* object *will not be returned*. RNS output is defined in the [Output](#) section.

### Error Definition

An error array can be defined according to the fields described in the following table.

| Field   | Description                              | Data Type | Example                      |
|---------|--|-----------|------------------------------|
| type    | The type of error that occurred.         | String    | System.Exception             |
| message | Information about what caused the error. | String    | Invalid account or token key |

### Error Messages

The following table details all potential expected error messages that can be returned for an API query.

| Message                                    | Reason  |
|--|---|
| Aborting command due to invalid user input | Generic error. This message is always returned when RNS encounters expected errors or exceptions. |

|  |   |
|--|---|
| Invalid command.   | The provided RNS <i>command</i> is unrecognized.  |
| Invalid account or token key                               | The provided <i>account</i> value is unrecognized.  |
| Invalid account or token key                               | The provided <i>password</i> value is unrecognized.   |
| Integer parameter '{parameter_name}' has incorrect format. | <p>The provided parameter value is not of the type <i>Integer</i>. RNS expects the provided parameter to be an integer value.</p> <p>This affects all parameters of the type <i>Integer</i>.</p> <p><u>Example Parameter</u><br/><i>maxCount</i></p>  |
| Parameter '{parameter_name}' outside of allowed range.     | <p>The provided parameter value is not within the expected range.</p> <p>This affects all parameters under the following conditions:</p> <ul style="list-style-type: none"> <li>• An <i>Integer</i> parameter value is less than or greater than allowed values.</li> <li>• A <i>Double</i> parameter value is less than or greater than allowed values.</li> </ul> <p><u>Example</u><br/><i>maxcount=0</i><br/><i>v=textnotallowed</i></p> |
| Required parameter '{parameter_name}' is missing.          | <p>A value was not provided for a required parameter. The value was empty.</p> <p><u>Example</u><br/><i>input=</i></p>  |

## Unexpected Errors

There may be scenarios where the API encounters errors that are unexpected. In these situations, the service will fail gracefully, and you should still expect to receive a response. The *errors* array will contain a message detailing the unexpected exception.

Additionally, the response for Unexpected Errors is slightly different. You should still expect that the recommended domains array will be empty. However, the JSON object may contain an *output* field, containing the child fields domains, info, and geo.



## Output

Data Type: *object*

The *output* object contains all data belonging to the list of recommended domains for a query. It consists of a parent *domains* array, which lists each recommended domain in order from highest rank to lowest rank. The sections below detail each of the data fields associated with a domain. You may also wish to reference the RNS User Guide, which contains additional information about each field.

There are two very important notes to be aware of:

1. The recommended *domains* array of the *output* object could potentially be empty, and this should be handled appropriately by the calling system. An empty array means that either RNS could find no available domains to recommend, or RNS experienced an unexpected error (see [Unexpected Errors](#)).
2. The *output* object could potentially not be included in the RNS response. If the *output* object is not included, then this means that the system experienced an expected error, and the *errors* array will contain one or more objects detailing the problem.

### Domains

Data Type: *array of objects*

The *domains* array contains an array of recommended domain objects. The table below details the fields that exist at the root level of each *domain* object.

| Field  | Description  | Definition  |
|--------|--|---|
| rank   | The position of the recommended domain in the domains array. The highest ranked domain will always start with a value of 1.  | <p><u>Type</u><br/><i>Integer</i></p> <p><u>Parent Object</u><br/><i>domains</i></p> <p><u>Values</u><br/><i>A number value greater than or equal to 1.</i></p> <p><u>Example</u><br/><i>14</i></p> |
| domain | <p>The name of the recommended domain.</p> <p><u>Additional Details</u><br/>The first letter of the SLD of a domain is always capitalized. This is a recognized bug. It will be changed to</p> | <p><u>Type</u><br/><i>String</i></p> <p><u>Parent Object</u><br/><i>domains</i></p>   |

|            |   |  |
|------------|---|--|
|            | lowercase in a future version.  | <p><u>Values</u><br/>Format: {sld}.{tld}</p> <p><u>Example</u><br/>Mydomain.cool</p>   |
| exact      | <p>Flag that determines whether or not the recommended domain is an exact match of the query <i>input</i> value.</p> <p><u>Additional Details</u><br/>RNS considers a domain to be an exact match in the following cases:</p> <ol style="list-style-type: none"> <li>1) {sld}.{tld} matches <i>input</i> value {sld}.{tld}</li> <li>2) {sld}.{tld} matches <i>input</i> value {tld}.{sld}</li> <li>3) {tld}.{sld} matches <i>input</i> value {tld}.{sld}</li> <li>4) {tld}.{sld} matches <i>input</i> value {sld}.{tld}</li> </ol> <p>Additionally, singular and plural forms of the <i>input</i> value can both result in an exact match. Example:<br/>best.code =&gt; {best.codes, code.best}</p> | <p><u>Type</u><br/>Integer (Boolean)</p> <p><u>Parent Object</u><br/>domains</p> <p><u>Values</u><br/>0: False<br/>1: True</p> <p><u>Example</u><br/>0</p> |
| registered | <p>Flag that determines whether or not the recommended domain is currently registered.</p> <p><u>Additional Details</u><br/>This flag will only be true if the query parameter <i>allowRegistered</i> has a value of 1.</p>   | <p><u>Type</u><br/>Integer (Boolean)</p> <p><u>Parent Object</u><br/>domains</p> <p><u>Values</u><br/>0: False<br/>1: True</p> <p><u>Example</u><br/>0</p> |
| premium    | Flag that determines whether or not the recommended domain is a premium domain.   | <p><u>Type</u><br/>Integer (Boolean)</p> <p><u>Parent Object</u><br/>domains</p> <p><u>Values</u><br/>0: False<br/>1: True</p> <p><u>Example</u><br/>0</p> |
| premium    | Flag that determines whether or not the recommended domain is a platinum domain.  | <p><u>Type</u><br/>Integer (Boolean)</p> <p><u>Parent Object</u><br/>domains</p> <p><u>Values</u><br/>0: False<br/>1: True</p>                             |

|          |  |   |
|----------|--|---|
|          |  | <p><u>Example</u><br/>0</p>   |
| adult    | Flag that determines whether or not the recommended domain contains adult words. | <p><u>Type</u><br/><i>Integer (Boolean)</i></p> <p><u>Parent Object</u><br/><i>domains</i></p> <p><u>Values</u><br/>0: <i>False</i><br/>1: <i>True</i></p> <p><u>Example</u><br/>0</p>                                  |
| sldValue | The calculated value that RNS has given to the SLD of the recommended domain.    | <p><u>Type</u><br/><i>Double</i></p> <p><u>Parent Object</u><br/><i>domains</i></p> <p><u>Values</u><br/><i>Non-negative double containing up to two decimal places. (0.00 to 1)</i></p> <p><u>Example</u><br/>0.84</p> |
| tldValue | The calculated value that RNS has given to the TLD of the recommended domain.    | <p><u>Type</u><br/><i>Double</i></p> <p><u>Parent Object</u><br/><i>domains</i></p> <p><u>Values</u><br/><i>Non-negative double containing up to two decimal places. (0.00 to 1)</i></p> <p><u>Example</u><br/>0.2</p>  |
| price    | Deprecated field. The value for this field will either equal 0 or null.          | <p><u>Type</u><br/><i>Integer</i></p> <p><u>Parent Object</u><br/><i>domains</i></p> <p><u>Values</u><br/><i>0, null</i></p> <p><u>Example</u><br/>0</p>  |
| renewal  | Deprecated field. The value for this field will either equal 0 or null.          | <p><u>Type</u><br/><i>Integer</i></p> <p><u>Parent Object</u></p>   |

|     |  |   |
|-----|--|---|
|     |  | <p><i>domains</i></p> <p><u>Values</u><br/><i>0, null</i></p> <p><u>Example</u><br/><i>null</i></p> |
| sld | A parent object that contains data fields specific to the SLD of the recommended domain. | <p><u>Type</u><br/><i>Object</i></p> <p><u>Parent Object</u><br/><i>domains</i></p>                 |
| tld | A parent object that contains data fields specific to the TLD of the recommended domain. | <p><u>Type</u><br/><i>Object</i></p> <p><u>Parent Object</u><br/><i>domains</i></p>                 |

## SLD

*Data Type: object*

The *sld* object consists of data fields specific to the SLD of the recommended domain. The table below details these fields.

| Field | Description   | Metadata  |
|-------|---|---|
| name  | <p>The name of the SLD of the recommended domain.</p> <p><u>Additional Details</u><br/>The first letter of the SLD name is always capitalized. This is a recognized bug. It will be changed to lowercase in a future version.</p> | <p><u>Type</u><br/><i>String</i></p> <p><u>Parent Object</u><br/><i>sld</i></p> <p><u>Values</u><br/><i>A valid SLD label. See RFC 1035.</i></p> <p><u>Example</u><br/><i>Mydomain</i></p>                                      |
| value | The calculated value that RNS has given to the SLD of the recommended domain.   | <p><u>Type</u><br/><i>Double</i></p> <p><u>Parent Object</u><br/><i>sld</i></p> <p><u>Values</u><br/><i>Non-negative double containing up to four decimal places. (0.0000 to 1)</i></p> <p><u>Example</u><br/><i>0.1286</i></p> |

|           |   |   |
|-----------|---|---|
| adult     | Flag that determines whether or not the SLD of the recommended domain contains adult words.     | <u>Type</u><br><i>Integer (Boolean)</i><br><br><u>Parent Object</u><br><i>sld</i><br><br><u>Values</u><br><i>0: False</i><br><i>1: True</i><br><br><u>Example</u><br><i>0</i> |
| offensive | Flag that determines whether or not the SLD of the recommended domain contains offensive words. | <u>Type</u><br><i>Integer (Boolean)</i><br><br><u>Parent Object</u><br><i>sld</i><br><br><u>Values</u><br><i>0: False</i><br><i>1: True</i><br><br><u>Example</u><br><i>0</i> |

## TLD

*Data Type: object*

The *tld* object consists of data fields specific to the TLD of the recommended domain. The table below details these fields.

| Field | Description   | Metadata   |
|-------|---|--|
| name  | The name of the TLD of the recommended domain.                                | <u>Type</u><br><i>String</i><br><br><u>Parent Object</u><br><i>tld</i><br><br><u>Values</u><br><i>A valid TLD label.</i><br><br><u>Example</u><br><i>com</i> |
| value | The calculated value that RNS has given to the TLD of the recommended domain. | <u>Type</u><br><i>Double</i><br><br><u>Parent Object</u><br><i>tld</i><br><br><u>Values</u><br><i>Non-negative double containing up to</i>                   |

|          |  |  |
|----------|--|--|
|          |  | <p>four decimal places. (0.0000 to 1)</p> <p><u>Example</u><br/>1</p>  |
| phase    | <p>Deprecated field. The value for this field will always equal "GA".</p>  | <p><u>Type</u><br/>String</p> <p><u>Parent Object</u><br/>tld</p> <p><u>Values</u><br/>N/A</p> <p><u>Example</u><br/>"GA"</p>                          |
| lucene   | <p>Flag that determines whether or not the TLD was recommended because it was matched using historical frequency indexing.</p> <p><u>Additional Details</u><br/>RNS uses signals from historical domain data in order to make the most relevant recommendations. If RNS matches a TLD for the query <i>input</i> based on these signals, then <i>lucene</i> will have a value of 1.</p>              | <p><u>Type</u><br/>Integer (Boolean)</p> <p><u>Parent Object</u><br/>tld</p> <p><u>Values</u><br/>0: False<br/>1: True</p> <p><u>Example</u><br/>1</p> |
| manual   | <p>Flag that determines whether or not the TLD was recommended because it was manually influenced by customer action.</p> <p><u>Additional Details</u><br/>A TLD will have <i>manual</i> value of 1 if it was recommended using one or more of the following query parameters:</p> <ul style="list-style-type: none"> <li>● onlyTLDs</li> <li>● forceTLDs</li> <li>● addTLDs</li> </ul>              | <p><u>Type</u><br/>Integer (Boolean)</p> <p><u>Parent Object</u><br/>tld</p> <p><u>Values</u><br/>0: False<br/>1: True</p> <p><u>Example</u><br/>1</p> |
| category | <p>Flag that determines whether or not the TLD was recommended because it was matched from a keyword category.</p> <p><u>Additional Details</u><br/>RNS maintains a database of keywords that intelligently maps to RNS TLDs. If the query <i>input</i> contains a keyword that exists in this database, and if the TLD is recommended as a result, then <i>category</i> will have a value of 1.</p> | <p><u>Type</u><br/>Integer (Boolean)</p> <p><u>Parent Object</u><br/>tld</p> <p><u>Values</u><br/>0: False<br/>1: True</p> <p><u>Example</u><br/>1</p> |
| geo      | <p>Flag that determines whether or not the TLD was recommended because it was a match for</p>  | <p><u>Type</u><br/>Integer (Boolean)</p>   |

|         |  |  |
|---------|--|--|
|         | <p>geotargeting.</p> <p><u>Additional Details</u><br/>RNS may suggest TLDs that match the geographic location of the user performing the search. If the TLD is geographically mapped to the user's location, then <i>geo</i> will have a value of 1.</p>   | <p><u>Parent Object</u><br/><i>tld</i></p> <p><u>Values</u><br/>0: <i>False</i><br/>1: <i>True</i></p> <p><u>Example</u><br/>1</p>   |
| graph   | <p>Flag that determines whether or not the TLD was recommended because it was a match for contextual TLD mapping.</p> <p><u>Additional Details</u><br/>RNS maintains a database of TLDs which are linked together under related contexts. For example, a group of TLDs might be related to law or travel. If the query <i>input</i> provides a TLD, and the recommended domain contains a contextually linked TLD, then <i>graph</i> will have a value of 1.</p> | <p><u>Type</u><br/><i>Integer (Boolean)</i></p> <p><u>Parent Object</u><br/><i>tld</i></p> <p><u>Values</u><br/>0: <i>False</i><br/>1: <i>True</i></p> <p><u>Example</u><br/>1</p> |
| hints   | <p>Flag that determines whether or not the TLD was recommended because it was associated with a configured Hint.</p> <p><u>Additional Details</u><br/>Hints are configured by customers in the RNS Customer Portal. If the TLD was recommended because it was associated with a query hint value, then <i>hints</i> will have a value of 1.</p>  | <p><u>Type</u><br/><i>Integer (Boolean)</i></p> <p><u>Parent Object</u><br/><i>tld</i></p> <p><u>Values</u><br/>0: <i>False</i><br/>1: <i>True</i></p> <p><u>Example</u><br/>0</p> |
| generic | <p>Flag that determines whether or not the TLD was recommended because the query <i>input</i> was considered generic.</p> <p><u>Additional Details</u><br/>RNS attempts to intelligently map query <i>input</i> with relevant TLDs. In the case where no mapping is found, then the input is considered generic. If a TLD is recommended because the query <i>input</i> was generic, then <i>generic</i> will have a value of 1.</p>                             | <p><u>Type</u><br/><i>Integer (Boolean)</i></p> <p><u>Parent Object</u><br/><i>tld</i></p> <p><u>Values</u><br/>0: <i>False</i><br/>1: <i>True</i></p> <p><u>Example</u><br/>0</p> |

## Info

Data Type: object

The *output* object of an RNS response returns data fields about the provided *input* value itself. Specifically, these fields are calculated values determined by RNS processing logic. The data is outputted for customer tracking only, and, as a result, is contained in an object called *info*. The following fields are provided in the *info* object.

| Field    | Description  | Metadata   |
|----------|--|--|
| input    | The query <i>input</i> value provided by the user. This is the search string from which recommended domains will be generated.   | <p><u>Type</u><br/>String</p> <p><u>Parent Object</u><br/><i>info</i></p> <p><u>Values</u><br/>A valid input label</p> <p><u>Example</u><br/><i>mycooldomain</i></p>                         |
| keywords | <p>The keywords parsed from the query <i>input</i> value. Each keyword is separated by a space (" ") within the string.</p> <p><u>Additional Details</u><br/>RNS utilizes an extensive language dictionary to separate an <i>input</i> value into logical keywords. The system then uses these keywords to generate relevant domain recommendations.</p> | <p><u>Type</u><br/>String</p> <p><u>Parent Object</u><br/><i>info</i></p> <p><u>Values</u><br/>A string of space-separated substrings.</p> <p><u>Example</u><br/><i>"my cool domain"</i></p> |
| generic  | <p>Flag that determines whether or not the query <i>input</i> was considered generic.</p> <p><u>Additional Details</u><br/>RNS attempts to intelligently map the query <i>input</i> with relevant TLDs. In the case where no mapping is found, then the input is considered <i>generic</i>, and the field will have a value of 1.</p>                    | <p><u>Type</u><br/>Integer (Boolean)</p> <p><u>Parent Object</u><br/><i>info</i></p> <p><u>Values</u><br/>0: False<br/>1: True</p> <p><u>Example</u><br/>0</p>                               |
| adult    | <p>Flag that determines whether or not the query <i>input</i> contains adult words.</p> <p><u>Additional Details</u><br/>RNS maintains a database of words considered "adult". If</p>  | <p><u>Type</u><br/>Integer (Boolean)</p> <p><u>Parent Object</u><br/><i>info</i></p>   |



|           |  |  |
|-----------|--|--|
|           | a query <i>input</i> contains an adult word, then <i>adult</i> will have a value of 1.   | <u>Values</u><br>0: <i>False</i><br>1: <i>True</i><br><br><u>Example</u><br>0  |
| offensive | Flag that determines whether or not the query <i>input</i> contains offensive words.<br><br><u>Additional Details</u><br>RNS maintains a database of words considered "offensive". If a query <i>input</i> contains an offensive word, then <i>offensive</i> will have a value of 1. | <u>Type</u><br>Integer (Boolean)<br><br><u>Parent Object</u><br><i>info</i><br><br><u>Values</u><br>0: <i>False</i><br>1: <i>True</i><br><br><u>Example</u><br>0 |
| tags      | The tags object is deprecated. Tags will be removed in a future release.   | <u>Type</u><br>Object<br><br><u>Parent Object</u><br><i>info</i>   |

## Geo

Data Type: object

The *output* object of an RNS response returns data fields containing geotargeting information. These fields are determined internally by RNS processing logic. The data is provided to customers for tracking purposes only, and it is contained in an object called *geo*. These fields will only be populated if the search query contains a valid IP Address value for the *clientIP* parameter. If *clientIP* is not provided, then the field data will be empty or null.

The following fields are provided in the *geo* object.

| Field    | Description  | Metadata  |
|----------|--|---|
| clientIp | <p>The <i>clientIP</i> value provided in the query.</p> <p><u>Additional Details</u><br/>If the <i>clientIP</i> parameter is not included in the query, or if the value of the parameter is empty, then the value of the <i>clientIp</i> will be null.</p>   | <p><u>Type</u><br/>String</p> <p><u>Parent Object</u><br/><i>geo</i></p> <p><u>Values</u><br/>A valid IP Address.<br/>(If no IP Address was passed, then the value is null.)</p> <p><u>Example</u><br/>69.64.144.72</p>                 |
| country  | <p>The country code location of the query <i>clientIp</i>.</p> <p><u>Additional Details</u><br/>This value is logically determined by RNS. RNS will always return a two-letter ISO 3166-1 alpha-2 country code instead of the full country name.</p> <p>If RNS cannot determine a valid country, then the value of <i>country</i> will be an empty string ("").</p>  | <p><u>Type</u><br/>String</p> <p><u>Parent Object</u><br/><i>geo</i></p> <p><u>Values</u><br/>An ISO 3166-1 alpha-2 country code.<br/>(If no country code can be determined, then the value is empty.)</p> <p><u>Example</u><br/>US</p> |
| region   | <p>The region code location of the query <i>clientIp</i>, contained within provided country.</p> <p><u>Additional Details</u><br/>This value is logically determined by RNS. RNS will always return a ISO 3166-1 alpha-2 region code. This value may consist of letters or numbers, but it will always be a <i>String</i> data type.</p> <p>If <i>region</i> has a value, then <i>country</i> must also have a value</p> | <p><u>Type</u><br/>String</p> <p><u>Parent Object</u><br/><i>geo</i></p> <p><u>Values</u><br/>An ISO 3166-1 alpha-2 region code.<br/>(If no region code can be determined, then the value is empty.)</p>                                |

|      |   |  |
|------|---|--|
|      | If RNS cannot determine a valid region, then the value of <i>region</i> will be an empty string ("").   | <u>Example</u><br>WA<br>11   |
| city | <p>The name of the city mapped to the <i>clientIp</i>.</p> <p><u>Additional Details</u><br/> This value is logically determined by RNS. If RNS cannot determine a valid city, then the value of <i>city</i> will be an empty string ("").</p> | <u>Type</u><br>String<br><br><u>Parent Object</u><br>geo<br><br><u>Values</u><br>A city name.<br>(If no city can be determined, then the value is empty.)<br><br><u>Example</u><br>Seattle |

## Response Samples

This section provides examples of full RNS responses for the *Recommend Domains* API command, including both successful API outputs and search requests that have output errors. RNS allows you to return different versions and verbosity levels, depending on your needs. Below, you will find examples of outputs for all supported versions. Each version will be displayed at the highest verbosity level, allowing you to visualize all potential data that can be returned. However, we recommend using the verbosity level that best fits your needs. Version and verbosity are described in more detail in the [Request Parameters](#) section.

### Version 1 (High Verbosity)

```
{
  "info":{
    "serviceName":"Hummingbird",
    "version":"1.46.0.851",
    "instanceName":"1-hummingbird-1",
    "command":"recommend-domains",
    "elapsedMS":17
  },
  "input":{
    "account":"domains4all",
    "usageid":"",
    "clientip":"161.149.146.201",
    "input":"searchdomains",
    "maxcount":"3",
    "minphase":"4",
    "addtlds":null,
    "removetlds":null,
    "onlytlds":null,
    "forcetlds":null,
    "usecategories":"1",
    "usegeoboosts":"1",
    "usedirectedgraph":"1",
    "allowadult":"1",
    "allowoffensive":"1",
    "allowregistered":"0",
    "allowpremium":"2",
    "allowplatinum":"2",
    "allowexactsld":"1",
    "exactsldonly":"0",
    "expandslds":"1",
    "maxprice":"0",
    "exactsldmultiplier":"3.5",
    "enhancedavailability":"0",
    "hints":"",
    "verbose":"2",
    "version":"1",
    "clientcc":"",
    "clientlocale":""
  },
  "output":{
    "person-name":0,
  }
}
```

```

"domains":{
  "count":3,
  "domains":[
    {
      "rank":1,
      "domain":"SearchDomains.forsale",
      "sld":{
        "name":"SearchDomains",
        "value":1,
        "adult":0,
        "split":"search,domains"
      },
      "tld":{
        "name":"forsale",
        "value":1,
        "phase":"GA",
        "luceneSuggestion":1,
        "manualSuggestion":0,
        "categorySuggestion":1
      },
      "exact":0,
      "registered":0,
      "premium":0,
      "adult":0,
      "registry":null,
      "registryOperator":null,
      "platinum":0,
      "price":0,
      "renewal":0,
      "sldValue":1,
      "tldValue":1,
      "score":1
    },
    {
      "rank":2,
      "domain":"SearchDomains.host",
      "sld":{
        "name":"SearchDomains",
        "value":1,
        "adult":0,
        "split":"search,domains"
      },
      "tld":{
        "name":"host",
        "value":0.8638,
        "phase":"GA",
        "luceneSuggestion":1,
        "manualSuggestion":0,
        "categorySuggestion":1
      },
      "exact":0,
      "registered":0,
      "premium":0,
      "adult":0,
      "registry":null,
      "registryOperator":null,
      "platinum":0,
      "price":0,
      "renewal":0,
      "sldValue":1,
      "tldValue":0.86,

```

```
    "score":0.86
  },
  {
    "rank":3,
    "domain":"SearchDomains.directory",
    "sld":{
      "name":"SearchDomains",
      "value":1,
      "adult":0,
      "split":"search,domains"
    },
    "tld":{
      "name":"directory",
      "value":0.7144,
      "phase":"GA",
      "luceneSuggestion":1,
      "manualSuggestion":0,
      "categorySuggestion":0
    },
    "exact":0,
    "registered":0,
    "premium":0,
    "adult":0,
    "registry":null,
    "registryOperator":null,
    "platinum":0,
    "price":0,
    "renewal":0,
    "sldValue":1,
    "tldValue":0.71,
    "score":0.71
  }
]
},
"errors":[
]
}
```

## Version 2 (High Verbosity)

```

{
  "service":{
    "name":"Hummingbird",
    "version":"1.46.0.851",
    "instance":"1-hummingbird-2",
    "command":"recommend-domains",
    "elapsed":10
  },
  "input":{
    "account":"domains4all",
    "usageid":"",
    "clientip":"161.149.146.201",
    "input":"searchdomains",
    "maxcount":"3",
    "allowregistered":"0",
    "allowpremium":"2",
    "allowplatinum":"2",
    "clientcc":"",
    "clientlocale":""
  },
  "errors":[
  ],
  "output":{
    "domains":[
      {
        "rank":1,
        "domain":"SearchDomains.forsale",
        "sld":{
          "name":"SearchDomains",
          "value":1,
          "adult":0,
          "offensive":0
        },
        "tld":{
          "name":"forsale",
          "value":1,
          "phase":"GA",
          "lucene":1,
          "manual":0,
          "category":1,
          "geo":0,
          "graph":0
        },
        "exact":0,
        "registered":0,
        "premium":0,
        "adult":0,
        "platinum":0,
        "price":0,
        "renewal":0,
        "sld-value":1,
        "tld-value":1,
        "score":1
      },
      {
        "rank":2,
        "domain":"SearchDomains.host",

```

```

    "sld":{
      "name":"SearchDomains",
      "value":1,
      "adult":0,
      "offensive":0
    },
    "tld":{
      "name":"host",
      "value":0.8638,
      "phase":"GA",
      "lucene":1,
      "manual":0,
      "category":1,
      "geo":0,
      "graph":0
    },
    "exact":0,
    "registered":0,
    "premium":0,
    "adult":0,
    "platinum":0,
    "price":0,
    "renewal":0,
    "sld-value":1,
    "tld-value":0.86,
    "score":0.86
  },
  {
    "rank":3,
    "domain":"SearchDomains.directory",
    "sld":{
      "name":"SearchDomains",
      "value":1,
      "adult":0,
      "offensive":0
    },
    "tld":{
      "name":"directory",
      "value":0.7144,
      "phase":"GA",
      "lucene":1,
      "manual":0,
      "category":0,
      "geo":0,
      "graph":0
    },
    "exact":0,
    "registered":0,
    "premium":0,
    "adult":0,
    "platinum":0,
    "price":0,
    "renewal":0,
    "sld-value":1,
    "tld-value":0.71,
    "score":0.71
  }
],
"info":{
  "input":"searchdomains",
  "keywords":"search domains",

```



```
"generic":0,
"adult":0,
"offensive":0,
"tags":{
  "contains":[
    "unclassified"
  ],
  "only":[
    "unclassified"
  ],
  "words":{
    "searchdomains":[
      "unclassified"
    ]
  }
},
"geo":{
  "client-ip":"161.149.146.201",
  "country":"US",
  "region":"CA",
  "city":"Los Angeles"
}
}
```

## Version 3 (High Verbosity)

```

{
  "service":{
    "name":"Hummingbird",
    "version":"1.46.0.851",
    "instance":"1-hummingbird-1",
    "command":"recommend-domains",
    "elapsed":10
  },
  "input":{
    "account":"domains4all",
    "usageid":"",
    "clientip":"161.149.146.201",
    "input":"searchdomains",
    "maxcount":"3",
    "allowregistered":"0",
    "allowpremium":"2",
    "allowplatinum":"2",
    "clientcc":"",
    "clientlocale":""
  },
  "errors":[
  ],
  "output":{
    "domains":[
      {
        "rank":1,
        "domain":"SearchDomains.forsale",
        "sld":{
          "name":"SearchDomains",
          "value":1,
          "adult":0,
          "offensive":0
        },
        "tld":{
          "name":"forsale",
          "value":1,
          "phase":"GA",
          "lucene":1,
          "manual":0,
          "category":1,
          "geo":0,
          "graph":0,
          "hints":0,
          "generic":0
        },
        "exact":0,
        "registered":0,
        "premium":0,
        "adult":0,
        "platinum":0,
        "price":0,
        "renewal":0,
        "sldValue":1,
        "tldValue":1,
        "score":1
      },
      {

```

```

"rank":2,
"domain":"SearchDomains.host",
"sld":{
  "name":"SearchDomains",
  "value":1,
  "adult":0,
  "offensive":0
},
"tld":{
  "name":"host",
  "value":0.8638,
  "phase":"GA",
  "lucene":1,
  "manual":0,
  "category":1,
  "geo":0,
  "graph":0,
  "hints":0,
  "generic":0
},
"exact":0,
"registered":0,
"premium":0,
"adult":0,
"platinum":0,
"price":0,
"renewal":0,
"sldValue":1,
"tldValue":0.86,
"score":0.86
},
{
"rank":3,
"domain":"SearchDomains.directory",
"sld":{
  "name":"SearchDomains",
  "value":1,
  "adult":0,
  "offensive":0
},
"tld":{
  "name":"directory",
  "value":0.7144,
  "phase":"GA",
  "lucene":1,
  "manual":0,
  "category":0,
  "geo":0,
  "graph":0,
  "hints":0,
  "generic":0
},
"exact":0,
"registered":0,
"premium":0,
"adult":0,
"platinum":0,
"price":0,
"renewal":0,
"sldValue":1,
"tldValue":0.71,

```

```
    "score":0.71
  }
],
"info":{
  "input":"searchdomains",
  "keywords":"search domains",
  "generic":0,
  "adult":0,
  "offensive":0,
  "tags":{
    "contains":[
      "unclassified"
    ],
    "only":[
      "unclassified"
    ],
    "words":{
      "searchdomains":[
        "unclassified"
      ]
    }
  }
},
"geo":{
  "clientIp":"161.149.146.201",
  "country":"US",
  "region":"CA",
  "city":"Los Angeles"
}
}
```

## Error (Invalid Password)

```
{
  "service":{
    "name":"Hummingbird",
    "version":"1.46.0.851",
    "instance":"1-hummingbird-1",
    "command":"recommend-domains",
    "elapsed":0
  },
  "input":{
    "account":"domains4all",
    "usageid":"",
    "clientip":"",
    "input":"searchdomains",
    "maxcount":"3",
    "allowregistered":"0",
    "allowpremium":"2",
    "allowplatinum":"2",
    "clientcc":"",
    "clientlocale":""
  },
  "errors":[
    {
      "type":"System.Exception",
      "message":"Invalid account or token key"
    },
    {
      "type":"System.Exception",
      "message":"Aborting command due to invalid user input."
    }
  ]
}
```

## Error (Value Out of Range)

```
{
  "service":{
    "name":"Hummingbird",
    "version":"1.46.0.851",
    "instance":"1-hummingbird-2",
    "command":"recommend-domains",
    "elapsed":0
  },
  "input":{
    "account":"domains4all",
    "usageid":"",
    "clientip":"",
    "input":"searchdomains",
    "allowregistered":"0",
    "allowpremium":"2",
    "allowplatinum":"2",
    "clientcc":"",
    "clientlocale":""
  },
  "errors":[
    {
      "type":"System.Exception",
      "message":"Parameter 'maxcount' outside of allowed range."
    },
    {
      "type":"System.Exception",
      "message":"Aborting command due to invalid user input."
    }
  ]
}
```