

IBM Security QRadar  
Version 7.2.4

## *API Guide*



**Note**

Before using this information and the product that it supports, read the information in “Notices” on page 273.

**Product information**

This document applies to IBM QRadar Security Intelligence Platform V7.2.4 and subsequent releases unless superseded by an updated version of this document.

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## About this guide

The IBM® Security QRadar® API Reference Guide provides information on the RESTful API for how to integrate QRadar solutions into third-party systems.

### Intended audience

This guide is intended for developers with coding experience. This guide assumes that you have QRadar access and a knowledge of your corporate network and networking technologies.

### Technical documentation

For information about how to access more technical documentation, technical notes, and release notes, see Accessing IBM Security Documentation Technical Note (<http://www.ibm.com/support/docview.wss?rs=0&uid=swg21612861>).

### Contacting customer support

For information about contacting customer support, see the Support and Download Technical Note (<http://www.ibm.com/support/docview.wss?rs=0&uid=swg21612861>).

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## Chapter 1. What's new for RESTful APIs in QRadarV7.2.4

IBM Security QRadar V7.2.4 introduces V3.0 of API endpoints.

### Ariel command-line query

QRadar V7.2.4 includes an `ariel_query` script, which is located `/opt/qradar/bin` directory on the Console. The script provides command-line access to create a synchronous Ariel query through the REST API. The query blocks until the search is complete and results are returned. Results can be requested to be returned in JSON, CSV, XML, or Table format.

### RESTful API user interface documentation page is enhanced to support field, paging, and filter parameters

Most of API endpoints now support common **fields**, **paging**, and **filter** parameters. These parameters are used to request partial results from an API endpoint.

Parameter	Description	Example
Fields	Requests only a subset of fields in the response object to be returned.	To request the <b>status</b> and <b>ID</b> fields for a list of offenses: GET <code>/api/siem/offenses?fields=status%2Cid</code>
Paging	Restricts the number of records that are returned at a time. The range is specified as a request header.	To restrict the number of records to the first 25 records for an endpoint Range : <code>items=0-24</code>
Filter	Requests only records that match the filter syntax	To request only offenses that have a status of <b>HIDDEN</b> : GET <code>/api/siem/offenses?Filter=status%3DHIDDEN</code>

### Reference Data API no longer requires administrative security profile

A general restriction is removed that required users and authentication tokens to have security profiles with access to all networks and all log sources to be able to use an API endpoint. Security profile processing is performed as necessary for each endpoint. All reference data API endpoints were updated to remove restrictions that are based on security profiles.

### Updated 404 error message

The 404 error message is updated to be more generic. The **Please refer to the documentation for the list of resources** sentence is removed and the error message now states **We could not find the resource you requested**.

## Resolved issues

This release resolves the following issues:

- Previously, if you ran a large number Ariel searches through the POST `/api/ariel/searches` endpoint in a short period, the Ariel server to get overloaded. This issue no longer occurs.
- Previously, Ariel queries with did not support Unicode characters. This release supports quotations in column names, for example, `Select sourceIP, "transação" from events.`

## Updated endpoints

The following endpoints are updated:

### POST `/api/ariel/searches`

The **start\_time** and **end\_time** parameters were removed. You can specify time windows for searches by using the appropriate AQL syntax in the **query\_expression** parameter.

### POST `api/referencedata_sets/bulkload/{name}`

When invalid data is provided in the request, the 422 error response code is returned instead of the 500 error response code.

### GET `/api/siem/offenses`

This endpoint includes the following updates:

- Returns offenses from only the network that is specified in the security profile that is assigned to the user.
- Custom paging is removed and replaced with standard API paging.
- The **Offense close time** parameter is now returned in milliseconds instead of seconds.

## New endpoints

V3.0 introduces the new Offense API endpoints:

- GET `/api/siem/offense_closing_reasons`
- POST `/api/siem/offense_closing_reasons`
- GET `/api/siem/offense_closing_reasons/{closing_reason_id}`
- GET `/api/siem/offenses/{offense_id}`
- POST `/api/siem/offenses/{offense_id}`
- GET `/api/siem/offenses/{offense_id}/notes`
- POST `/api/siem/offenses/{offense_id}/notes`
- GET `/api/siem/offenses/{offense_id}/notes/{note_id}`

## Deprecated endpoints

You can use deprecated endpoints in V7.2.4, but they will be removed in a future release, so upgrade any integrations that use this endpoint to API V3.

The `api/ariel/databass/{database_name}` (V2.0) endpoint is deprecated in API V3.0:



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## Chapter 2. RESTful API overview

You can access the RESTful API to send HTTPS requests to specific URLs (endpoints) on the QRadar Console. You can use the HTTP implementation that is built in to the programming language of your choice to send these requests. Each request contains authentication information, and parameters that modify the request.

### API Endpoints

An API *endpoint* contains the URL of the resource that you want to access and the action you want to complete on that resource. The action is indicated by the HTTP method of the request: GET, POST, or DELETE.

### Required permissions to access the API

Authentication information is included in the request as an HTTP header. The required access credentials can be provided in the following methods:

- A QRadar user role, including a user name and password.
- An authentication token, which provides access through authorized services. For more information about how to manage authorized services, see the *IBM Security QRadar SIEM Administration Guide*.

### API requests and responses

When you send an API request, the server returns an HTTP response. The HTTP response contains a status code to indicate whether the request succeeded and the details of the response in the response body. Most resources format this response as JavaScript Object Notation (JSON). You can use the JSON packages or libraries that are built in to the programming language that you use to extract the data.

For a complete example of this process, see the sample code in the API forum (<https://www.ibm.com/developerworks/community/forums/html/forum?id=b02461a3-9a70-4d73-94e8-c096abe263ca>).



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## Chapter 3. API command-line client

Use the API command-line client to make API calls when logged in to the IBM Security QRadar host as the root user. The API command-line client is experimental and will stabilize over future QRadar releases.

You can use the API command-line client to complete the following tasks:

1. Print API endpoints. To print all endpoints and information that is required to make calls against the endpoints, use the following command:

```
/opt/qradar/bin/api_client --print_api
```

2. Make requests to API endpoints.

### Basic API calls

A basic API call is a GET request to an endpoint that requires no parameters, for example:

```
/opt/qradar/bin/api_client --api /help/capabilities --method GET
```

The following table provides the arguments that you can use for basic calls.

*Table 1. Arguments for basic calls*

Argument	Definition
--api /api_name/endpoint	The path to your API endpoint. This path appends to <code>https://ConsoleIPAddress/</code> . For example: <code>https://ConsoleIPAddressapi/referencedata/sets/</code>
--method METHOD	Determines whether your API request is a GET, POST, or DELETE method. View the output of <code>--print_api</code> for the required method.

### Calls with path parameters

You can add path parameters to modify the endpoint that you want to call and correspond to a place in the endpoint portion in the URL. Use the **Name** parameter, for example:

```
/referencedata/sets/{name}
```

To call a specific reference set in the Reference Data endpoint, place the name of the reference set in the path to the endpoint that you want to specify. For example, to retrieve the *exampleset* reference set, use the following call:

```
python apiclient.py --api /referencedata/sets/exampleset --method GET
```

### Calls with query parameters

Enter Query parameters with the following syntax:

```
--params param_name=param_value
```

For example, to get a list of all endpoints that use `httpMethod POST`, you can call `/help/capabilities`. Supply the query parameters **`httpMethods`** and **`version`**. The **`httpMethods`** parameter requires a JSON object. You can create a JSON object inside double quotation marks by using single quotation marks, squares brackets, and commas. For example:

```
python apiclient.py --api /help/capabilities --method GET --params
httpMethods="['POST']" version="0.1"
```

To determine which parameters are query or body parameters, view the output of `--print_api`.

## Calls with body parameters

Enter body parameters in the same way that you enter query parameters, for example, `--param_name=param_value`. You must specify the content type of the body that you are sending with the `--content_type TYPE` argument. For example, when you load bulk data with a content type of **`element type ALN`** to an existing reference set that is named **`exampleset`**, type:

```
python apiclient.py --api /referencedata/sets/bulkLoad/exampleset --method POST
--content_type="application/json" --params data="['value1','value2','value3']"
```

**Important:** You must specify the `--content_type` argument. If not specified, the body is sent as a query parameter, and the API call fails.

## Calls to other consoles

You can use the REST API command-line client to make API calls to a different console from the client you are running. Use the `--hostname HOSTNAME` argument to determine to which host name or IP address you want to send calls. Use the following syntax:

```
/opt/qradar/bin/api_client --api /ariel/databases --method GET --hostnameIP address
```

## Stored tokens authorization

### Inputting and storing

You can generate an authorization token on the QRadar Console that you want to call. You can then enter that authorization token into the API client to use with subsequent calls. If the authorization token is valid, the token is saved to disk in the `~/opt/qradar/bin/api_client/tokens` folder with the following file name: *hostname.token*.

### Overwriting tokens

To overwrite a token for a console, make an API call to the Console by using the `--overwrite_token` argument, and then input a new token. If the token is valid, it is saved to disk.

## User name and password authorization

Use the `--pap` argument for API client to use a password-authorized protocol to authorize your API call, and then enter a user name and password. If you do not use an authorized service token, the API client cannot save your user name and password information for use by subsequent API calls to the same host.

## API client help

Use the `./api_client -h` argument to view all options for the API client.

---

## Chapter 4. Accessing the RESTful API documentation user interface

Use the API documentation user interface to access technical descriptions and capabilities for the REST APIs and generate sample responses.

The API user interface documentation is also available in this guide.

### About this task

The API documentation user interface provides descriptions and capabilities for the following REST API interfaces:

*Table 2. REST API interfaces*

REST API	Description
/api/ariel	View event and flow properties, create event and flow searches, and manage searches.
/api/asset_model	Returns a list of all assets in the model. You can also list all available asset property types and saved searches, and update an asset.
/api/auth	Log out and invalidate the current session.
/api/help	Returns a list of API capabilities.
/api/siem	View, update, and close offenses. You can also add notes and manage offense closing reasons.
/api/qvm	Review and manage QRadar Vulnerability Manager data.
/api/reference_data	View and manage reference data collections.
/api/qvm	Retrieves assets, vulnerabilities, networks, open services, networks, and filters. You can also create or update remediation tickets.
/api/scanner	View, create, or start a remote scan that is related to a scan profile.

### Procedure

1. Enter the following URL in your web browser to access the technical documentation interface: `https://ConsoleIPaddress/api_doc/`.
2. Click the category for the API that you want to access.  
Example: /ariel
3. Click the URL for the endpoint that you want to access.  
Example: /databases
4. Click **Experimental**.
5. Read the endpoint documentation and fill in the request parameters.
6. Click **Try it out** to receive properly formatted HTTPS responses.

**Attention:** When you click **Try it out**, the action is performed on the QRadar system. Not all actions can be reversed, for example, you cannot reopen an offense after you close it.

7. Review and gather the information that you need to implement in your third-party solution.

---

## Chapter 5. REST API V3.0 References

Each API reference provides information about the parameters, mime type, stability, and responses for each endpoint.

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### Ariel endpoints

Use the references for REST API V3.0 ariel endpoints.

#### GET /ariel/databases

Retrieve Ariel database names.

Retrieve a list of the Ariel databases that are available.

*Table 3. GET /ariel/databases resource details.*

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

*Table 4. GET /ariel/databases response codes.*

HTTP Response Code	Unique Code	Description
200		The database list was retrieved.
500	1020	An error occurred while attempting to retrieve the list of Ariel databases.

#### Response Description

The names of the Ariel databases that are available.

#### Response Sample

```
[  
  "String",  
  "String",  
  "String"  
]
```

#### GET /ariel/databases/{database\_name}

Retrieve the columns that are defined for a specific Ariel database.

This is the set of columns that can be explicitly named in the column list of a SELECT query.

Table 5. GET /ariel/databases/{database\_name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 6. GET /ariel/databases/{database\_name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
database_name	PATH	Required	String	text/plain	Required. The name of the Ariel database to retrieve the columns for.

Table 7. GET /ariel/databases/{database\_name} response codes.

HTTP Response Code	Unique Code	Description
200		The database columns were retrieved.
404	1002	The database does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the database columns.

## Response Description

A list of columns that are defined for the specified database. Multiple properties of each column are returned. For example, the column name, or an indication of if the column is indexable.

## Response Sample

```
{
  "columns": [
    {
      "argument_type": "String",
      "indexable": true,
      "name": "String"
    },
    {
      "argument_type": "String",
      "indexable": true,
      "name": "String"
    },
    {
      "argument_type": "String",
      "indexable": true,
      "name": "String"
    }
  ]
}
```

## GET /ariel/searches

Retrieve Ariel search IDs.



Retrieve the list of Ariel searches. This includes search\_ids for completed and active searches.

Table 8. GET /ariel/searches resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 9. GET /ariel/searches response codes.

HTTP Response Code	Unique Code	Description
200		The search list was retrieved.
500	1020	An error occurred while attempting to retrieve the list of searches.

## Response Description

A list of the search IDs.

## Response Sample

```
[
  "String",
  "String",
  "String"
]
```

## POST /ariel/searches

Create a new asynchronous Ariel search.

Creates a new Ariel search as specified by the Ariel Query Language (AQL) query expression. Searches are executed asynchronously. A reference to the search\_id is returned and should be used in subsequent API calls to determine the status of the search and retrieve the results once it is complete.

This endpoint only accepts SELECT and RUN query expressions.

Queries are applied to the range of data in a certain time interval. By default this time interval is the last 60 seconds. An alternative time interval can be specified by providing values for the start\_time and end\_time parameters. These parameters are used to express an inclusive time range, each value is interpreted as the number of milliseconds since 0:00:00, January 1, 1970 UTC. If both start\_time and end\_time parameters are not provided, the query interval defaults to the last 60 seconds. Alternatively a time interval can be specified as part of the query expression which takes precedence over the start\_time and end\_time parameters. For further information, see the AQL reference.

Table 10. POST /ariel/searches resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 11. *POST /ariel/searches request parameter details.*

Parameter	Type	Optionality	Data Type	MIME Type	Description
query_expression	QUERY	Required	String	text/plain	Required. The AQL query to execute.
search_id	QUERY	Optional	String	text/plain	Optional .A search_id value to be used for the new search instead of a system generated search_id. The search_id must be unique and is only used for SELECT query expressions. The search_id can only contain numbers, letters, dashes and/or underscores.

Table 12. *POST /ariel/searches response codes.*

HTTP Response Code	Unique Code	Description
201		A new Ariel search was successfully created.
422	2000	The query_expression contains invalid AQL syntax.
409	1004	The search could not be created, the search_id provided is already in use. Please use a unique search_id.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to create a new search.

## Response Description

Information about the specified search, including the search\_id. Use the search\_id to access or manipulate the search with the other API endpoints. If the exact search being created was already recently created, the response message will return a reference to the original search\_id rather than creating a new search.

## Response Sample

```
{
  "processed_record_count": 42,
  "progress": 42,
  "query_execution_time": 42,
  "record_count": 42,
  "save_results": true,
  "search_id": "String",
  "status": "String <one of: WAIT, EXECUTE, SORTING, COMPLETED, CANCELED, ERROR>"
}
```

## GET /ariel/searches/{search\_id}

Retrieve information about a given Ariel search.

Retrieve status information for a search, based on the search\_id parameter. The same informational fields are returned regardless of whether the search is currently executing or is complete.

Table 13. GET /ariel/searches/{search\_id} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 14. GET /ariel/searches/{search\_id} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
search_id	PATH	Required	String	text/plain	Required. The identifier for an Ariel search.

Table 15. GET /ariel/searches/{search\_id} response codes.

HTTP Response Code	Unique Code	Description
200		The search information was retrieved.
404	1002	The search does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the search information.

## Response Description

Information about the specified search, including search status.

## Response Sample

```
{
  "processed_record_count": 42,
  "progress": 42,
  "query_execution_time": 42,
  "record_count": 42,
  "save_results": true,
  "search_id": "String",
  "status": "String <one of: WAIT, EXECUTE, SORTING, COMPLETED, CANCELED, ERROR>"
}
```

## POST /ariel/searches/{search\_id}

Update an Ariel search.

Updates details for an Ariel search. Searches can be updated in the following two ways:

- An active search can be canceled by setting the **status** parameter to "CANCELED". This stops the search and keeps any search results that were collected before the search was canceled.
- The results for a completed search can be saved by setting the **save\_results** parameter to "true". This ensures that the search is not automatically removed when it expires in accordance with the retention policy.

The Ariel server uses an internal retention policy to manage available disk space. Searches might be deleted automatically, according to the settings of the retention

policy. Searches with saved results are not automatically reclaimed by the server and are therefore retained. A search can be explicitly deleted using the endpoint 'DELETE /searches/{search\_id}'.

**Note:** Saving too many search results might result in insufficient disk space to process new searches.

Table 16. POST /ariel/searches/{search\_id} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 17. POST /ariel/searches/{search\_id} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
search_id	PATH	Required	String	text/plain	Required. The ID of the search to update.
save_results	QUERY	Optional	String	text/plain	Optional. The only accepted value is 'true'. If this value is provided, the search results will not be deleted by the search expiration removal process.
status	QUERY	Optional	String	text/plain	Optional. The only accepted value is 'CANCELED'. If this value is provided the search will be canceled.

Table 18. POST /ariel/searches/{search\_id} response codes.

HTTP Response Code	Unique Code	Description
200		The search was updated.
404	1002	The search does not exist.
422	1005	A request parameter is not valid.
409	1008	The current status of the search prevented the search results from being saved.
500	1020	An error occurred while attempting to update the search.

## Response Description

Information about the specified search that was updated.

## Response Sample

```
{
  "processed_record_count": 42,
  "progress": 42,
  "query_execution_time": 42,
  "record_count": 42,
  "save_results": true,
  "search_id": "String",
  "status": "String <one of: WAIT, EXECUTE, SORTING, COMPLETED, CANCELED, ERROR>"
}
```

## DELETE /ariel/searches/{search\_id}

Delete an Ariel search.

Deletes an Ariel search. This discards any results that were collected and stops the search if it is currently processing. This search is deleted regardless of whether the results were saved.

Table 19. DELETE /ariel/searches/{search\_id} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 20. DELETE /ariel/searches/{search\_id} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
search_id	PATH	Required	String	text/plain	Required. The search_id of the search to delete.

Table 21. DELETE /ariel/searches/{search\_id} response codes.

HTTP Response Code	Unique Code	Description
204		The search was deleted.
404	1002	The search does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to delete the search.

## Response Description

There is no response body for a successfully deleted Ariel Search.

## GET /ariel/searches/{search\_id}/results

Retrieves search results in the format requested.

Retrieve the results of the Ariel search that is identified by the search\_id. The results are returned in the format indicated by the 'Accepts' request header. The format can be JSON, CSV, XML, or tabular text. By default, all query result records are returned. To restrict the results to a contiguous subset of the records supply a

Range header to specify the inclusive range of records to be returned. This end-point works with query results that are generated by AQL query expressions. This endpoint might not work as expected for results that are generated by other means. Search results may not be retrievable for searches that are created in the Console.

Table 22. GET /ariel/searches/{search\_id}/results resource details.

Stability	MIME Type
EXPERIMENTAL	application/json application/csv text/table application/xml

Table 23. GET /ariel/searches/{search\_id}/results request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
search_id	PATH	Required	String	text/plain	The ID of the search whose results are to be returned.

Table 24. GET /ariel/searches/{search\_id}/results response codes.

HTTP Response Code	Unique Code	Description
200		The search results were retrieved.
404	1002	The search does not exist.
404	1003	Search results not found, the search is still in progress.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the search results.

## Response Description

The search results for the specified search\_id. The format that is used to encapsulate the data depends on the format specified in the 'Accept' header for this request.

## Response Sample

---

## Asset Model endpoints

Use the references for REST API V2 Asset Model endpoints.

## GET /asset\_model/assets

List all assets found in the model.

Table 25. GET /asset\_model/assets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 26. GET /asset\_model/assets response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve assets completed successfully.
500	1020	The server encountered an error while trying to retrieve the assets.

## Response Description

List of assets retrieved using the associated asset saved search.

## Response Sample

```
[
  {
    "id": 42,
    "interfaces": [
      {
        "created": 42,
        "first_seen_profiler": 42,
        "first_seen_scanner": 42,
        "id": 42,
        "ip_addresses": [
          {
            "created": 42,
            "first_seen_profiler": 42,
            "first_seen_scanner": 42,
            "id": 42,
            "last_seen_profiler": 42,
            "last_seen_scanner": 42,
            "network_id": 42,
            "type": "String",
            "value": "String"
          }
        ],
        "last_seen_profiler": 42,
        "last_seen_scanner": 42,
        "mac_address": "String"
      }
    ],
    "properties": [
      {
        "id": 42,
        "last_reported": 42,
        "last_reported_by": "String",
        "name": "String",
        "type_id": 42,

```

```

    "value": "String"
  }
]
]

```

## POST /asset\_model/assets/{asset\_id}

Update an asset with several pertinent pieces of information.

The **asset\_id** tag is mandatory, and is the unique identifier for an asset. This field is available through the **/asset\_model/assets** or **/asset\_model/saved\_searches/{saved\_search\_id}/results** query. To update properties, the property type id which is available through the **/asset\_model/properties** query should be provided along with the new value. See the sample provided demonstrating an example asset update.

Table 27. POST /asset\_model/assets/{asset\_id} resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 28. POST /asset\_model/assets/{asset\_id} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
asset_id	PATH	Required	String	text/plain	Unique identifier of the asset to update.

Table 29. POST /asset\_model/assets/{asset\_id} request body details.

Parameter	Data Type	MIME Type	Description	Sample
asset	JSON	application/json	JSON representation of an asset.	{ "properties": [ { "type_id": 1001, "value": "given name value" }, { "type_id": 1002, "value": "unified name value" } ] }

Table 30. POST /asset\_model/assets/{asset\_id} response codes.

HTTP Response Code	Unique Code	Description
202		The request to update the asset was successful. The update will take place when the asset profile application receives the request.
422	1005	One or more of the requested property updates were invalid.
500	1020	The server encountered an error registering the update with the asset profile application.

## Response Description

Information about the asset that was updated.



## Response Sample

String

### GET /asset\_model/properties

Get a list of available asset property types that can be used or applied against the /asset\_model/assets endpoint.

Table 31. GET /asset\_model/properties resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 32. GET /asset\_model/properties response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve the list of asset property types completed successfully.
500	1020	An error occurred while trying to retrieve the list of asset property types.

## Response Description

List of asset properties. Per asset property type: id and name that make up this asset property type.

## Response Sample

```
[
  {
    "custom": true,
    "data_type": "String",
    "display": true,
    "id": 42,
    "name": "String",
    "state": 42
  }
]
```

### GET /asset\_model/saved\_searches

Get a list of saved searches that can be used or applied against the /asset\_model/saved\_searches/{saved\_search\_id}/results query.

Table 33. GET /asset\_model/saved\_searches resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 34. GET /asset\_model/saved\_searches response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve the list of saved searches completed successfully.
500	1020	The server encountered an error while trying to retrieve the list of saved searches.

## Response Description

List of saved searches. Per saved search: id, name and list of filters that make up this saved search

## Response Sample

```
[
  {
    "columns": [
      {
        "name": "String",
        "type": "String"
      },
      {
        "name": "String",
        "type": "String"
      },
      {
        "name": "String",
        "type": "String"
      }
    ],
    "description": "String",
    "filters": [
      {
        "operator": "String",
        "parameter": "String",
        "value": "String"
      },
      {
        "operator": "String",
        "parameter": "String",
        "value": "String"
      },
      {
        "operator": "String",
        "parameter": "String",
        "value": "String"
      }
    ],
    "id": 42,
    "name": "String"
  }
]
```

## GET /asset\_model/saved\_searches/{saved\_search\_id}/results

Retrieves a list of assets based on the results of an asset saved search.

Table 35. GET /asset\_model/saved\_searches/{saved\_search\_id}/results resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 36. GET /asset\_model/saved\_searches/{saved\_search\_id}/results request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
saved_search_id	PATH	Required	String	text/plain	Unique identifier of the saved search used to retrieve assets.

Table 37. GET /asset\_model/saved\_searches/{saved\_search\_id}/results response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve assets completed successfully.
422	1005	The unique identifier of the saved search provided was invalid.
500	1003	The server encountered an error executing the saved search.

## Response Description

List of assets retrieved using the associated asset saved search.

## Response Sample

```
[
  {
    "id": 42,
    "interfaces": [
      {
        "created": 42,
        "first_seen_profiler": 42,
        "first_seen_scanner": 42,
        "id": 42,
        "ip_addresses": [
          {
            "created": 42,
            "first_seen_profiler": 42,
            "first_seen_scanner": 42,
            "id": 42,
            "last_seen_profiler": 42,
            "last_seen_scanner": 42,
            "network_id": 42,
            "type": "String",
            "value": "String"
          }
        ],
        "last_seen_profiler": 42,
        "last_seen_scanner": 42,
        "mac_address": "String"
      }
    ]
  }
],
```

```

    "properties": [
      {
        "id": 42,
        "last_reported": 42,
        "last_reported_by": "String",
        "name": "String",
        "type_id": 42,
        "value": "String"
      }
    ]
  }
]

```

---

## Authentication endpoints

Use the references for REST API V1.0 authentication endpoints.

### POST /auth/logout

Invoke this method as an authorized user and your session will be invalidated.

*Table 38. POST /auth/logout resource details.*

Stability	MIME Type
EXPERIMENTAL	text/plain

There are no parameters for this endpoint.

### Response Description

Returns true. Throws exception upon failure.

### Response Sample

true

---

## Help endpoints

Use the references for REST API V1.0 help endpoints.

### GET /help/capabilities

List all QRadar API capabilities.

List the QRadar API capabilities. The response will contain all available RESTful resources We allow every authenticated user to access this method, but restrict the output based on their user capabilities

*Table 39. GET /help/capabilities resource details.*

Stability	MIME Type
EXPERIMENTAL	application/json

*Table 40. GET /help/capabilities request parameter details.*

Parameter	Type	Optionality	Data Type	MIME Type	Description
categories	QUERY	Optional	JSON	application/json	Restrict your search to this list of capabilities.
paths	QUERY	Optional	JSON	application/json	Restrict your search to these paths only.

Table 40. *GET /help/capabilities request parameter details (continued).*

Parameter	Type	Optionality	Data Type	MIME Type	Description
httpMethods	QUERY	Optional	JSON	application/json	Restrict your search to these HTTP methods.
version	QUERY	Optional	JSON	text/plain	Restrict your search to this version (or below).
showExperimental	QUERY	Optional	Boolean	text/plain	If true, we include experimental endpoints (default is true).

Table 41. *GET /help/capabilities response codes.*

HTTP Response Code	Unique Code	Description
422	1001	Invalid input
422	1002	Our internal mapping has an unexpected structure or contains an invalid element value.
500	1003	A generic error has occurred while retrieving our capabilities.

## Response Sample

```
{
  "categories": [
    {
      "apis": [
        {
          "httpMethod": "String &lt;one of: OPTIONS, GET, HEAD, POST, PUT, DELETE, TRACE, CONNECT, PATCH>",
          "operations": [
            {
              "additionalFiltering": true,
              "deprecated": true,
              "description": "String",
              "errorResponses": [
                {
                  "code": 42,
                  "description": "String",
                  "uniqueCode": 42
                }
              ],
              "httpMethod": "String",
              "lastSupportedVersion": 42.5,
              "parameters": [
                {
                  "allowMultiple": true,
                  "description": "String",
                  "name": "String",
                  "pathIndex": 42,
                  "required": true,
                  "source": "String",
                  "supportedContentTypes": [
                    {
                      "dataType": "String",
                      "mimeType": "String",
                      "sample": "String"
                    }
                  ]
                }
              ]
            },
            {
              "removalTarget": 42.5,
              "removed": true,
              "responseClass": "String",
              "responseDescription": {
                "description": "String",
                "properties": [
                  {
                    "description": "String",

```

```

        "name": "String"
      }
    ]
  },
  "successResponses": [
    {
      "code": 42,
      "description": "String"
    }
  ],
  "summary": "String",
  "supportedContentTypes": [
    {
      "dataType": "String",
      "mimeType": "String",
      "sample": "String"
    }
  ],
  "version": 42.5,
  "visibility": "String"
}
],
"path": "String"
}
],
"path": "String"
}
],
"path": "String"
}
}
}

```

## QRadar Vulnerability Manager endpoints

Use the references for REST API V2 QRadar Vulnerability Manager endpoints.

### GET /qvm/assets

List the assets with discovered vulnerabilities present in the asset model. The response will contain all available RESTful resources

Table 42. GET /qvm/assets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 43. GET /qvm/assets request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	Id of saved search
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

Table 44. GET /qvm/assets request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	Id of saved search
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

## Response Description

list of assets data

## Response Sample

### GET /qvm/filters

Get a list of the allowable QRadar Vulnerability Manager filters.

Get a list of the allowable filters that can be used or applied against the following queries:

- /qvm/assets
- /qvm/vulns
- /qvm/vulninstances
- /qvm/openservices
- /qvm/networks

Table 45. GET /qvm/filters resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 46. GET /qvm/filters response codes.

HTTP Response Code	Unique Code	Description
200		The search executed successfully.
420	9102	An error occurred while executing the search.

## Response Description

List of filters.

## Response Sample

### GET /qvm/network

List the networks present in the asset model with vulnerabilities present. The response contains all available RESTful resources.

Table 47. GET /qvm/network resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 48. GET /qvm/network request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	ID of saved search

Table 48. GET /qvm/network request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

Table 49. GET /qvm/network response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve vulnerabilities by network completed successfully.
420	9101	Invalid search parameters, search cannot be performed.

## Response Description

List of network related data.

## Response Sample

## GET /qvm/openservices

List the open services present in the asset model with vulnerabilities present. The response contains all available RESTful resources.

Table 50. GET /qvm/openservices resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 51. GET /qvm/openservices request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	ID of saved search
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

Table 52. GET /qvm/openservices response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve vulnerabilities by open service completed successfully.
420	9101	Invalid search parameters, search cannot be performed.



## Response Description

List of open services related data.

## Response Sample

### GET /qvm/savedsearches

Get a list of saved QRadar Vulnerability Manager searches

Get a list of saved searches that can be used or applied against the following queries:

- /qvm/assets
- /qvm/vulns
- /qvm/vulninstances
- /qvm/openservices
- /qvm/networks

Table 53. GET /qvm/savedsearches resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 54. GET /qvm/savedsearches response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve the list of saved searches completed successfully.
420	9103	An error occurred while trying to retrieve the list of saved searches.

## Response Description

List of saved searches.

## Response Sample

### POST /qvm/tickets/assign

Update the remediation ticket for the assigned vulnerability.

Table 55. POST /qvm/tickets/assign resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 56. POST /qvm/tickets/assign request body details.

Parameter	Data Type	MIME Type	Description	Sample
ticket	JSON	application/json		

Table 57. POST /qvm/tickets/assign response codes.

HTTP Response Code	Unique Code	Description
200		The request to assign a ticket completed successfully.
420	9104	An error occurred while trying to assign a ticket due to invalid arguments.

## Response Description

Success message if update succeed.

## Response Sample

## GET /qvm/vulninstances

List the Vulnerability Instances present in the asset model. The response contains all available RESTful resources.

Table 58. GET /qvm/vulninstances resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 59. GET /qvm/vulninstances request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	ID of saved search
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

Table 60. GET /qvm/vulninstances response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve vulnerabilities by instance completed successfully.
420	9101	Invalid search parameters, search cannot be performed.

## Response Description

List of vulnerability instance data.

## GET /qvm/vulns

List the Vulnerabilities present in the asset model. The response contains all available RESTful resources.

Table 61. GET /qvm/vulns resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 62. GET /qvm/vulns request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	ID of saved search
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

Table 63. GET /qvm/vulns response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve vulnerabilities completed successfully.
420	9101	Invalid search parameters, search cannot be performed.

### Response Description

list of vulnerability data

---

## Reference Data endpoints

Use the references for REST API V3 Reference Data endpoints.

## GET /reference\_data/map\_of\_sets

Retrieve a list of all reference map of sets.

Table 64. GET /reference\_data/map\_of\_sets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 65. GET /reference\_data/map\_of\_sets response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets list has been retrieved.

Table 65. GET /reference\_data/map\_of\_sets response codes (continued).

HTTP Response Code	Unique Code	Description
500	1020	An error occurred while attempting to retrieve all of the reference map of sets.

## Response Description

A list of all of the reference map of sets. This returns information about the map of sets but not the contained data.

## Response Sample

```
[
  {
    "creation_time": 42,
    "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "key_label": "String",
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "value_label": "String"
  },
  {
    "creation_time": 42,
    "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "key_label": "String",
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "value_label": "String"
  },
  {
    "creation_time": 42,
    "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "key_label": "String",
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "value_label": "String"
  }
]
```

## POST /reference\_data/map\_of\_sets

Create a new reference map of sets.

Table 66. POST /reference\_data/map\_of\_sets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 67. POST /reference\_data/map\_of\_sets request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference map of sets to create

Table 67. POST /reference\_data/map\_of\_sets request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
element_type	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference map of sets. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
key_label	QUERY	Optional	String	text/plain	Optional. The label to describe the keys
value_label	QUERY	Optional	String	text/plain	Optional. The label to describe the data values
timeout_type	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the time_to_live interval is based on when the data was first seen or last seen.
time_to_live	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"

Table 68. POST /reference\_data/map\_of\_sets response codes.

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference map of sets could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference map of sets.

## Response Description

Information about the newly created reference map of sets.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
  "number_of_elements": 42,
```

```

    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "value_label": "String"
}

```

## GET /reference\_data/map\_of\_sets/{name}

Return the reference map of sets identified by the **name** parameter.

If provided, the **limit** parameter specifies the number of records to return starting at record specified by **offset** parameter . If not specified, then the first 20 records will be returned.

Table 69. GET /reference\_data/map\_of\_sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 70. GET /reference\_data/map\_of\_sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to retrieve

Table 71. GET /reference\_data/map\_of\_sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets has been retrieved.
404	1002	The reference map of sets does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference map of sets.

## Response Description

The reference map of sets identified by the name specified in the request. The portion of the reference map of sets' data returned is dependent on the limit and offset specified in the request.

## Response Sample

```

{
  "creation_time": 42,
  "data": {
    "String1": [
      {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      }
    ]
  }
}

```

```

        {
            "first_seen": 42,
            "last_seen": 42,
            "source": "String",
            "value": "String"
        },
        {
            "first_seen": 42,
            "last_seen": 42,
            "source": "String",
            "value": "String"
        }
    ],
    "String2": [
        {
            "first_seen": 42,
            "last_seen": 42,
            "source": "String",
            "value": "String"
        },
        {
            "first_seen": 42,
            "last_seen": 42,
            "source": "String",
            "value": "String"
        },
        {
            "first_seen": 42,
            "last_seen": 42,
            "source": "String",
            "value": "String"
        }
    ],
    "String3": [
        {
            "first_seen": 42,
            "last_seen": 42,
            "source": "String",
            "value": "String"
        },
        {
            "first_seen": 42,
            "last_seen": 42,
            "source": "String",
            "value": "String"
        },
        {
            "first_seen": 42,
            "last_seen": 42,
            "source": "String",
            "value": "String"
        }
    ]
},
"element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
"key_label": "String",
"name": "String",
"number_of_elements": 42,
"time_to_live": "String",
"timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
"value_label": "String"
}

```

## POST /reference\_data/map\_of\_sets/{name}

Add or update an element in a reference map of sets.

Table 72. POST /reference\_data/map\_of\_sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 73. POST /reference\_data/map\_of\_sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to add or update an element in
key	QUERY	Required	String	text/plain	Required. The key of the set to add or update
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference map of sets. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. This indicates where the data originated. The default value is 'reference data api'

Table 74. POST /reference\_data/map\_of\_sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets has had an element added or updated.
404	1002	The reference map of sets does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference map of sets.



## Response Description

Information about the reference map of sets that has had an element added or updated. This returns information about the reference map of sets but not the contained data.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "value_label": "String"
}
```

## DELETE /reference\_data/map\_of\_sets/{name}

Remove a map of sets or purge its contents.

Table 75. DELETE /reference\_data/map\_of\_sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 76. DELETE /reference\_data/map\_of\_sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to remove or purge
purge_only	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference map of sets should have its contents purged (true), keeping the reference map of sets structure. If the value is "false" or not specified the reference map of sets will be removed completely.

Table 77. DELETE /reference\_data/map\_of\_sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had its contents purged.

Table 77. DELETE /reference\_data/map\_of\_sets/{name} response codes (continued).

HTTP Response Code	Unique Code	Description
204		The reference map has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference map of sets does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference map of sets.
409	1004	The reference map of sets could not be deleted, it is being used by other objects.

## Response Description

If the reference map of sets was removed nothing is returned, otherwise information about the reference map of sets that had its contents purged is returned.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "value_label": "String"
}
```

## DELETE /reference\_data/map\_of\_sets/{name}/{key}

Remove a value from a reference map of sets.

Table 78. DELETE /reference\_data/map\_of\_sets/{name}/{key} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 79. DELETE /reference\_data/map\_of\_sets/{name}/{key} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to remove a value from
key	PATH	Required	String	text/plain	Required. The key of the value to remove

Table 79. DELETE /reference\_data/map\_of\_sets/{name}/{key} request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference map of sets. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 80. DELETE /reference\_data/map\_of\_sets/{name}/{key} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets has had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference map of sets does not exist.
404	1003	The record does not exist in the reference map of sets.
500	1020	An error occurred while attempting to remove the reference map of sets value.

## Response Description

Information about the reference map of sets that had a value removed. This returns information about the reference map of sets but not the contained data.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "value_label": "String"
}
```

## GET /reference\_data/maps

Retrieve a list of all reference maps.

Table 81. GET /reference\_data/maps resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 82. GET /reference\_data/maps response codes.

HTTP Response Code	Unique Code	Description
200		The reference map list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference maps.

## Response Description

A list of all of the reference maps. This returns information about the maps but not the contained data.

## Response Sample

```
[
  {
    "creation_time": 42,
    "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "key_label": "String",
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "value_label": "String"
  }
]
```

## POST /reference\_data/maps

Create a new reference map.

Table 83. POST /reference\_data/maps resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 84. POST /reference\_data/maps request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference map to create
key_label	QUERY	Optional	String	text/plain	Optional. The label to describe the keys
value_label	QUERY	Optional	String	text/plain	Optional. The label to describe the data values

Table 84. POST /reference\_data/maps request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
element_type	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference map. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
timeout_type	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the time_to_live interval is based on when the data was first seen or last seen.
time_to_live	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"

Table 85. POST /reference\_data/maps response codes.

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created.
422	1005	parameters were invalid.
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference map.

## Response Description

Information about the newly created reference map.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "value_label": "String"
}
```

## GET /reference\_data/maps/{name}

Retrieve the reference map identified by the **name** parameter.

If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 86. GET /reference\_data/maps/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 87. GET /reference\_data/maps/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to retrieve

Table 88. GET /reference\_data/maps/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has been retrieved.
404	1002	The reference map does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference map.

## Response Description

The reference map identified by the name specified in the request. The portion of the reference map's data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "creation_time": 42,
  "data": {
    "String1": {
      "first_seen": 42,
      "last_seen": 42,
      "source": "String",
      "value": "String"
    },
    "String2": {
      "first_seen": 42,
      "last_seen": 42,
      "source": "String",
      "value": "String"
    }
  }
}
```

```

    "String3": {
      "first_seen": 42,
      "last_seen": 42,
      "source": "String",
      "value": "String"
    }
  },
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "value_label": "String"
}

```

## POST /reference\_data/maps/{name}

Add or update an element in a reference map.

Table 89. POST /reference\_data/maps/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 90. POST /reference\_data/maps/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to add or update an element in
key	QUERY	Required	String	text/plain	Required. The key who's value we want to add or update
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference map. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is 'reference data api'

Table 91. *POST /reference\_data/maps/{name}* response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had an element added or updated.
404	1002	The reference map does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference map.

## Response Description

Information about the reference map that had an element added or updated. This returns information about reference map but not the contained data.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "value_label": "String"
}
```

## DELETE /reference\_data/maps/{name}

Remove a reference map or purge the contents.

Table 92. *DELETE /reference\_data/maps/{name}* resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 93. *DELETE /reference\_data/maps/{name}* request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to remove or purge



Table 93. DELETE /reference\_data/maps/{name} request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
purge_only	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference map should have its contents purged (true), keeping the reference map structure. If the value is "false" or not specified the reference map will be removed completely.

Table 94. DELETE /reference\_data/maps/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had its contents purged.
204		The reference map has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference map does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference map.
409	1004	The reference map could not be deleted, it is being used by other objects.

## Response Description

If the reference map was removed nothing is returned, otherwise information about the reference map that had its contents purged is returned.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "value_label": "String"
}
```

## DELETE /reference\_data/maps/{name}/{key}

Remove a value from a reference map.

Table 95. DELETE /reference\_data/maps/{name}/{key} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 96. DELETE /reference\_data/maps/{name}/{key} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to remove a value from
key	PATH	Required	String	text/plain	Required. The key of the value to remove
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference map. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 97. DELETE /reference\_data/maps/{name}/{key} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference map does not exist.
404	1003	The record does not exist in the reference map.
500	1020	An error occurred while attempting to remove the value from the reference map.

### Response Description

Information about the reference map that had an element removed. This returns information about map but not the contained data.

### Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
```

```

    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "value_label": "String"
}

```

## GET /reference\_data/sets

Retrieve a list of all reference sets.

Table 98. GET /reference\_data/sets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 99. GET /reference\_data/sets response codes.

HTTP Response Code	Unique Code	Description
200		The reference set list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference sets.

## Response Description

A list of all of the reference sets. This returns information about the sets but not the contained data.

## Response Sample

```

[
  {
    "creation_time": 42,
    "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  },
  {
    "creation_time": 42,
    "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  },
  {
    "creation_time": 42,
    "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  }
]

```

## POST /reference\_data/sets

Create a new reference set.

Table 100. POST /reference\_data/sets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 101. POST /reference\_data/sets request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference set being created
element_type	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference set. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
timeout_type	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the time_to_live interval is based on when the data was first seen or last seen.
time_to_live	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"

Table 102. POST /reference\_data/sets response codes.

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference set.

## Response Description

Information about the newly created reference set.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## POST /reference\_data/sets/bulk\_load/{name}

Add or update data in a reference set.

Table 103. POST /reference\_data/sets/bulk\_load/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 104. POST /reference\_data/sets/bulk\_load/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of set to add or update data in

Table 105. POST /reference\_data/sets/bulk\_load/{name} request body details.

Parameter	Data Type	MIME Type	Description	Sample
data	JSON	application/json	Required - The JSON formatted data to add or update in the reference set	["String", "String", "String", "String", "String", "String", "String", "String", "String", "String", "String"]

Table 106. POST /reference\_data/sets/bulk\_load/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had data added or updated.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference set.
400	1001	An error occurred parsing the JSON formatted message body.

## Response Description

Information about the reference set that had data added or updated. This returns information about the reference set but not the contained data.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## GET /reference\_data/sets/{name}

Retrieve the reference set identified by the **name** parameter.

If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 107. GET /reference\_data/sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 108. GET /reference\_data/sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to retrieve

Table 109. GET /reference\_data/sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has been retrieved.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference set.

## Response Description

The reference set identified by the name specified in the request. The portion of the set's data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "creation_time": 42,
  "data": [
    {
      "first_seen": 42,
      "last_seen": 42,
      "source": "String",
      "value": "String"
    },
    {
      "first_seen": 42,
      "last_seen": 42,
      "source": "String",
      "value": "String"
    },
    {
      "first_seen": 42,
      "last_seen": 42,
      "source": "String",
      "value": "String"
    }
  ],
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## POST /reference\_data/sets/{name}

Add or update an element in a reference set.

Table 110. POST /reference\_data/sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 111. POST /reference\_data/sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to add or update an element in
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference set. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is 'reference data api'

Table 112. POST /reference\_data/sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had an element added or updated.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update an element in the reference set.

## Response Description

Information about the reference set that had an element added or updated. This returns information about the reference set but not the contained data.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## DELETE /reference\_data/sets/{name}

Remove a reference set or purge its contents.

Table 113. DELETE /reference\_data/sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 114. DELETE /reference\_data/sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the set to remove or purge



Table 114. DELETE /reference\_data/sets/{name} request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
purge_only	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference set should have its contents purged (true), keeping the reference set structure. If the value is "false" or not specified the reference set will be removed completely.

Table 115. DELETE /reference\_data/sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had its contents purged.
204		The reference set has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference set does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference set.
409	1004	The reference set could not be deleted, it is being used by other objects.

## Response Description

If the reference set was removed nothing is returned, otherwise information about the reference set that had its contents purged is returned.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## DELETE /reference\_data/sets/{name}/{value}

Remove a value from a reference set.

Table 116. DELETE /reference\_data/sets/{name}/{value} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 117. DELETE /reference\_data/sets/{name}/{value} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to remove a value from
value	PATH	Required	String	text/plain	Required. The value to remove from the reference set. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 118. DELETE /reference\_data/sets/{name}/{value} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference set does not exist.
404	1003	The record does not exist in the reference set.
500	1020	An error occurred while attempting to remove the value from the reference set.

### Response Description

Information about the reference set that had an value removed. This returns information about the reference set but not the contained data.

### Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## GET /reference\_data/tables

Retrieve a list of all reference tables.

Table 119. GET /reference\_data/tables resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 120. GET /reference\_data/tables response codes.

HTTP Response Code	Unique Code	Description
200		The reference table list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference tables.

## Response Description

A list of all of the reference tables. This returns information about the tables but not the contained data.

## Response Sample

```
[
  {
    "creation_time": 42,
    "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "key_label": "String",
    "key_name_types": {
      "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
    },
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  },
  {
    "creation_time": 42,
    "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "key_label": "String",
    "key_name_types": {
      "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
    },
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  },
  {
    "creation_time": 42,
    "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "key_label": "String",
    "key_name_types": {
```

```

        "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
        "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
        "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
    },
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
]

```

## POST /reference\_data/tables

Create a new reference table.

Table 121. POST /reference\_data/tables resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 122. POST /reference\_data/tables request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference table to create.
element_type	QUERY	Required	String	text/plain	Required. The default element type for the values allowed in the reference table. This is used when values are added or updated in the reference table who's inner key was not defined in the <b>&lt;b&gt;key_name_types&lt;/b&gt;</b> parameter. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
outer_key_label	QUERY	Optional	String	text/plain	Optional. The label to describe the outer keys
timeout_type	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the time_to_live interval is based on when the data was first seen or last seen. "
time_to_live	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"
key_name_types	QUERY	Optional	JSON	application/json	Optional. A JSON formatted string. This array creates the inner key names and corresponding value types for the table

Table 123. POST /reference\_data/tables response codes.

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created.
422	1005	A request parameter is not valid.

Table 123. *POST /reference\_data/tables* response codes (continued).

HTTP Response Code	Unique Code	Description
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference table.

## Response Description

Information about the newly created reference table.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "key_name_types": {
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  },
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## GET /reference\_data/tables/{name}

Return the reference table identified by the **name** parameter.

If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 124. *GET /reference\_data/tables/{name}* resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 125. *GET /reference\_data/tables/{name}* request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to retrieve

Table 126. GET /reference\_data/tables/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table has been retrieved.
404	1002	The reference table does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference table.

## Response Description

The reference table identified by the name specified in the request. The portion of the reference table's data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "creation_time": 42,
  "data": {
    "String1": {
      "String1": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      "String2": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      "String3": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      }
    },
    "String2": {
      "String1": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      "String2": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      "String3": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      }
    }
  }
}
```

```

    },
    "String3": {
      "String1": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      "String2": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      "String3": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      }
    }
  },
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "key_name_types": {
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  },
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}

```

## POST /reference\_data/tables/{name}

Add or update an element in a reference table.

The value to be added must be of the appropriate type: either the type that corresponds to the innerKey predefined for the reference table, or the default elementType of the reference table

Table 127. POST /reference\_data/tables/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 128. POST /reference\_data/tables/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to add or update an element in
outer_key	QUERY	Required	String	text/plain	Required. The outer key for the element to add or update

Table 128. *POST /reference\_data/tables/{name}* request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
inner_key	QUERY	Required	String	text/plain	Required. The inner key for the element to add or update
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference table. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is 'reference data api'

Table 129. *POST /reference\_data/tables/{name}* response codes.

HTTP Response Code	Unique Code	Description
200		The reference table has had an element added or updated.
404	1002	The reference table does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference table.

## Response Description

Information about the reference table that had an element added or updated. This returns information about the reference table but not the contained data.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "key_name_types": {
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  },
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```



## DELETE /reference\_data/tables/{name}

Remove a reference table or purge its contents.

Table 130. DELETE /reference\_data/tables/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 131. DELETE /reference\_data/tables/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to remove or purge
purge_only	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference table should have its contents purged (true), keeping the reference table structure. If the value is "false" or not specified the reference table will be removed completely.

Table 132. DELETE /reference\_data/tables/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table has had its contents purged.
204		The reference table has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference table does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference table.
409	1004	The reference table could not be deleted, it is being used by other objects.

### Response Description

If the table was removed nothing is returned, otherwise information about the reference table that had its contents purged is returned.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "key_name_types": {
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  },
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## DELETE /reference\_data/tables/{name}/{outer\_key}/{inner\_key}

Remove a value from a reference table.

Table 133. DELETE /reference\_data/tables/{name}/{outer\_key}/{inner\_key} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 134. DELETE /reference\_data/tables/{name}/{outer\_key}/{inner\_key} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to remove a value from
outer_key	PATH	Required	String	text/plain	Required. The outer key of the value to remove
inner_key	PATH	Required	String	text/plain	Required. The inner key of the value to remove
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference table. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 135. DELETE /reference\_data/tables/{name}/{outer\_key}/{inner\_key} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table had had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference table does not exist.
404	1003	The record does not exist in the reference table.
500	1020	An error occurred while attempting to remove the reference table value.

## Response Description

Information about the reference table that had an element removed. This returns information about table but not the contained data.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "key_name_types": {
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  },
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

---

## Scanner endpoints

Use the references for REST API V0.1 scanner endpoints.

### GET /scanner/scanprofiles

Retrieves all of the currently created scan profiles.

No parameters are required and the following information should be retrieved for each scan profile:

- profileId
- scanProfileName
- description
- scanType
- scannerName
- schedule
- status
- progress

- lastRunTime
- duration

Table 136. GET /scanner/scanprofiles resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 137. GET /scanner/scanprofiles response codes.

HTTP Response Code	Unique Code	Description
200		The list of scan profiles was successfully returned.
500	1030	Occurs when an attempt is made to list scan profiles when certain conditions are not met, or when too many scan requests have been made.

## Response Description

The list of scan profiles currently configured in QRadar Vulnerability Manager.

## Response Sample

```
[
  {
    "description": "String",
    "duration": {
      "days": 42,
      "hours": 42,
      "minutes": 42,
      "months": 42,
      "seconds": 42.5,
      "type": "String",
      "value": "String",
      "years": 42
    },
    "endTime": {
      "date": 42,
      "day": 42,
      "hours": 42,
      "minutes": 42,
      "month": 42,
      "seconds": 42,
      "time": 42,
      "timezoneOffset": 42,
      "year": 42
    },
    "progress": 42,
    "scanProfileId": 42,
    "scanProfileName": "String",
    "scanType": "String",
    "scannerName": "String",
    "schedule": "String",
    "status": "String"
  }
]
```

## POST /scanner/scanprofiles

Initiates a request to create a new scanProfile.

The request takes one parameter - createScanRequest, which is just a POJO. To create the scan, you will need to build up a JSON object that contains the Scan Profile name and hosts to scan, for example, {'name': 'New Scan Profile', 'ips': ['10.100.85.135']}

Table 138. POST /scanner/scanprofiles resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 139. POST /scanner/scanprofiles request body details.

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	JSON	application/json		{ "description": "String", "hosts": [ "String", "String", "String" ], "name": "String" }

Table 140. POST /scanner/scanprofiles response codes.

HTTP Response Code	Unique Code	Description
204		The scan has been successfully created.
500	1030	Occurs when an attempt is made to create a scan when certain conditions are not met, or when too many scan requests have been made.

## Response Description

An indicator of whether the scan has been created successfully or not.

## Response Sample

String

## DELETE /scanner/scanprofiles/{profileid}

Initiates a request to delete a scanProfile.

Table 141. DELETE /scanner/scanprofiles/{profileid} resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 142. DELETE /scanner/scanprofiles/{profileid} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	

Table 143. DELETE /scanner/scanprofiles/{profileid} response codes.

HTTP Response Code	Unique Code	Description
204		The scan has been successfully deleted.
500	1030	Occurs when an attempt is made to delete a scan when certain conditions are not met, or when too many scan requests have been made.

## Response Description

An indicator of whether the scan has been deleted successfully or not.

## Response Sample

String

## GET /scanner/scanprofiles/{profileid}

Retrieves a scan profile for a given Scan Profile ID.

The only parameter required is the Scan Profile ID. The following information about a scan profile will be returned:

- profileId
- scanProfileName
- description
- scanType
- scannerName
- scannerName
- schedule
- status
- progress
- lastRunTime
- duration

Table 144. GET /scanner/scanprofiles/{profileid} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 145. GET /scanner/scanprofiles/{profileid} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	The unique id of the scan profile we need to retrieve information for.

Table 146. GET /scanner/scanprofiles/{profileid} response codes.

HTTP Response Code	Unique Code	Description
200		The scan profile was successfully returned.
500	1030	Occurs when an attempt is made to list a scan profile when certain conditions are not met, or when too many scan requests have been made.

## Response Description

The list of scan profiles currently configured in QRadar Vulnerability Manager.

## Response Sample

```
[
  {
    "description": "String",
    "duration": {
      "days": 42,
      "hours": 42,
      "minutes": 42,
      "months": 42,
      "seconds": 42.5,
      "type": "String",
      "value": "String",
      "years": 42
    },
    "endTime": {
      "date": 42,
      "day": 42,
      "hours": 42,
      "minutes": 42,
      "month": 42,
      "seconds": 42,
      "time": 42,
      "timezoneOffset": 42,
      "year": 42
    },
    "progress": 42,
    "scanProfileId": 42,
    "scanProfileName": "String",
    "scanType": "String",
    "scannerName": "String",
    "schedule": "String",
    "status": "String"
  }
]
```

## POST /scanner/scanprofiles/{profileid}

Update a scan profile.

The following information on a scan profile can be updated:

- scanProfileName
- description
- ips

Table 147. POST /scanner/scanprofiles/{profileid} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 148. POST /scanner/scanprofiles/{profileid} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	The unique id of the scan profile used to update,

Table 149. POST /scanner/scanprofiles/{profileid} request body details.

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	JSON	application/json		

Table 150. POST /scanner/scanprofiles/{profileid} response codes.

HTTP Response Code	Unique Code	Description
202		The scan profile was successfully updated.
500	1030	Occurs when an attempt is made to update a scan profile when certain conditions are not met, or when too many scan requests have been made.

## Response Description

A message to indicate whether the scan profile has updated or not.

## Response Sample

### POST /scanner/scanprofiles/{profileid}/start

Initiates a request to start an already created scanProfile.

To get a list of scanProfileIds, get a list of the current scan profiles by initiating a profiles request on the scanner endpoint. The scanProfileId will be validated and an appropriate message returned.

Table 151. POST /scanner/scanprofiles/{profileid}/start resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 152. POST /scanner/scanprofiles/{profileid}/start request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	The unique id of the scan profile we want to start.



Table 153. *POST /scanner/scanprofiles/{profileid}/start request body details.*

Parameter	Data Type	MIME Type	Description	Sample
ips	JSON	application/json		

Table 154. *POST /scanner/scanprofiles/{profileid}/start request body details.*

Parameter	Data Type	MIME Type	Description	Sample
ips	JSON	application/json		

## Response Description

An indicator of whether the scan has been started successfully or not.

## Response Sample

String

## SIEM endpoints

Use the references for REST API V3 SIEM endpoints.

### GET /siem/offense\_closing\_reasons

Retrieve a list of all closing reasons.

Table 155. *GET /siem/offense\_closing\_reasons resource details.*

Stability	MIME Type
EXPERIMENTAL	application/json

Table 156. *GET /siem/offense\_closing\_reasons request parameter details.*

Parameter	Type	Optionality	Data Type	MIME Type	Description
include_reserved	QUERY	Optional	Boolean	text/plain	Optional. If true, reserved closing reasons are included in the response. Defaults to false. Reserved closing reasons cannot be used to close an offense.
include_deleted	QUERY	Optional	Boolean	text/plain	Optional. If true, deleted closing reasons are included in the response. Defaults to false. Deleted closing reasons cannot be used to close an offense.

Table 157. *GET /siem/offense\_closing\_reasons response codes.*

HTTP Response Code	Unique Code	Description
200		The closing reasons list was retrieved.
500	1020	An error occurred while the closing reasons list was being retrieved.

### Response Description

An array of Closing Reason objects. A closing reason object contains the following fields:

Field	Format	Description
id	Number	The ID of the closing reason.
text	String	The text of the closing reason.
is_deleted	Boolean	Determines whether the closing reason is deleted. Deleted closing reasons cannot be used to close an offense.
is_reserved	Boolean	Determines whether the closing reason is reserved. Reserved closing reasons cannot be used to close an offense.

### Response Sample

```
[
  {
    "id": 42,
    "is_deleted": true,
    "is_reserved": true,
    "text": "String"
  },
  {
    "id": 42,
    "is_deleted": true,
    "is_reserved": true,
    "text": "String"
  },
  {
    "id": 42,
    "is_deleted": true,
    "is_reserved": true,
    "text": "String"
  }
]
```

### POST /siem/offense\_closing\_reasons

Create a closing reason.

Table 158. POST /siem/offense\_closing\_reasons resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 159. POST /siem/offense\_closing\_reasons request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
reason	QUERY	Required	String	text/plain	Required. The text of the offense closing reason must be 5 - 60 characters in length.

Table 160. POST /siem/offense\_closing\_reasons response codes.

HTTP Response Code	Unique Code	Description
201		The closing reason was created.
422	1005	A request parameter is not valid.
409	1004	The closing reason already exists.
500	1020	An error occurred while attempting to create the closing reason.

## Response Description

A Closing Reason object. A closing reason object contains the following fields:

Field	Format	Description
id	Number	The ID of the closing reason.
text	String	The text of the closing reason.
is_deleted	Boolean	Determines whether the closing reason is deleted. Deleted closing reasons cannot be used to close an offense.
is_reserved	Boolean	Determines whether the closing reason is reserved. Reserved closing reasons cannot be used to close an offense.

## Response Sample

```
{
  "id": 42,
  "is_deleted": true,
  "is_reserved": true,
  "text": "String"
}
```

## GET /siem/offense\_closing\_reasons/{closing\_reason\_id}

Retrieve a closing reason.

Table 161. GET /siem/offense\_closing\_reasons/{closing\_reason\_id} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 162. GET /siem/offense\_closing\_reasons/{closing\_reason\_id} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
closing_reason_id	PATH	Required	Number	text/plain	Required. The closing reason ID.

Table 163. GET /siem/offense\_closing\_reasons/{closing\_reason\_id} response codes.

HTTP Response Code	Unique Code	Description
200		The closing reason was retrieved.
404	1002	No closing reason was found for the provided closing_reason_id.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the closing reason.

## Response Description

A Closing Reason object. A closing reason object contains the following fields:

Field	Format	Description
id	Number	The ID of the closing reason.
text	String	The text of the closing reason.
is_deleted	Boolean	Determines whether the closing reason is deleted. Deleted closing reasons cannot be used to close an offense.
is_reserved	Boolean	Determines whether the closing reason is reserved. Reserved closing reasons cannot be used to close an offense.

## Response Sample

```
{
  "id": 42,
  "is_deleted": true,
  "is_reserved": true,
  "text": "String"
}
```

## GET /siem/offenses

Retrieve a list of offenses currently in the system.

Table 164. GET /siem/offenses resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 165. GET /siem/offenses response codes.

HTTP Response Code	Unique Code	Description
200		The offense list was retrieved.
422	1005	A request parameter is not valid.
500	1020	An error occurred while the offense list was being retrieved.

## Response Description

An array of Offense objects. An Offense object contains the following fields:

Field	Format	Description
id	Number	The ID of the offense.
description	String	The description of the offense.
assigned_to	String	The user the offense is assigned to.
categories	Array of strings	Event categories that are associated with the offense.
category_count	Number	The number of event categories that are associated with the offense.
policy_category_count	Number	The number of policy event categories that are associated with the offense.
security_category_count	Number	The number of security event categories that are associated with the offense.

Field	Format	Description
close_time	Number	The number of milliseconds since epoch when the offense was closed.
closing_user	String	The user that closed the offense.
closing_reason_id	Number	The ID of the offense closing reason. The reason the offense was closed.
credibility	Number	The credibility of the offense.
relevance	Number	The relevance of the offense.
severity	Number	The severity of the offense.
magnitude	Number	The magnitude of the offense.
destination_networks	Array of strings	The destination networks that are associated with the offense.
source_network	String	The source network that is associated with the offense.
device_count	Number	The number of devices that are associated with the offense.
event_count	Number	The number of events that are associated with the offense.
flow_count	Number	The number of flows that are associated with the offense.
inactive	Boolean	True if the offense is inactive.
last_updated_time	Number	The number of milliseconds since epoch when the offense was last updated.
local_destination_count	Number	The number of local destinations that are associated with the offense.
offense_source	String	The source of the offense.
offense_type	Number	A number that represents the offense type.
protected	Boolean	True if the offense is protected.
follow_up	Boolean	True if the offense is marked for follow up.
remote_destination_count	Number	The number of remote destinations that are associated with the offense.
source_count	Number	The number of sources that are associated with the offense.
start_time	Number	The number of milliseconds since epoch when the offense was started.

Field	Format	Description
status	String	The status of the offense. One of "OPEN", "HIDDEN", or "CLOSED".
username_count	Number	The number of user names that are associated with the offense.

The following table identifies offense type codes:

Code	Offense Type
0	Source IP
1	Destination IP
2	Event Name
3	User name
4	Source MAC Address
5	Destination MAC Address
6	Log Source
7	Hostname
8	Source Port
9	Destination Port
10	Source IPv6
11	Destination IPv6
12	Source ASN
13	Destination ASN
14	Rule
15	App Id
18	Scheduled Search

## Response Sample

```
[
  {
    "assigned_to": "String",
    "categories": [
      "String",
      "String",
      "String"
    ],
    "category_count": 42,
    "close_time": 42,
    "closing_reason_id": 42,
    "closing_user": "String",
    "credibility": 42,
    "description": "String",
    "destination_networks": [
      "String",
      "String",
      "String"
    ],
    "device_count": 42,
    "event_count": 42,
```

```

    "flow_count": 42,
    "follow_up": true,
    "id": 42,
    "inactive": true,
    "last_updated_time": 42,
    "local_destination_count": 42,
    "magnitude": 42,
    "offense_source": "String",
    "offense_type": 42,
    "policy_category_count": 42,
    "protected": true,
    "relevance": 42,
    "remote_destination_count": 42,
    "security_category_count": 42,
    "severity": 42,
    "source_count": 42,
    "source_network": "String",
    "start_time": 42,
    "status": "String <one of: OPEN, HIDDEN, CLOSED>",
    "username_count": 42
  },
  {
    "assigned_to": "String",
    "categories": [
      "String",
      "String",
      "String"
    ],
    "category_count": 42,
    "close_time": 42,
    "closing_reason_id": 42,
    "closing_user": "String",
    "credibility": 42,
    "description": "String",
    "destination_networks": [
      "String",
      "String",
      "String"
    ],
    "device_count": 42,
    "event_count": 42,
    "flow_count": 42,
    "follow_up": true,
    "id": 42,
    "inactive": true,
    "last_updated_time": 42,
    "local_destination_count": 42,
    "magnitude": 42,
    "offense_source": "String",
    "offense_type": 42,
    "policy_category_count": 42,
    "protected": true,
    "relevance": 42,
    "remote_destination_count": 42,
    "security_category_count": 42,
    "severity": 42,
    "source_count": 42,
    "source_network": "String",
    "start_time": 42,
    "status": "String <one of: OPEN, HIDDEN, CLOSED>",
    "username_count": 42
  },
  {
    "assigned_to": "String",
    "categories": [
      "String",
      "String",
      "String",

```



```

        "String"
    ],
    "category_count": 42,
    "close_time": 42,
    "closing_reason_id": 42,
    "closing_user": "String",
    "credibility": 42,
    "description": "String",
    "destination_networks": [
        "String",
        "String",
        "String"
    ],
    "device_count": 42,
    "event_count": 42,
    "flow_count": 42,
    "follow_up": true,
    "id": 42,
    "inactive": true,
    "last_updated_time": 42,
    "local_destination_count": 42,
    "magnitude": 42,
    "offense_source": "String",
    "offense_type": 42,
    "policy_category_count": 42,
    "protected": true,
    "relevance": 42,
    "remote_destination_count": 42,
    "security_category_count": 42,
    "severity": 42,
    "source_count": 42,
    "source_network": "String",
    "start_time": 42,
    "status": "String <one of: OPEN, HIDDEN, CLOSED>",
    "username_count": 42
  }
]

```

## GET /siem/offenses/{offense\_id}

Retrieve an offense structure that describes properties of an offense

Table 166. GET /siem/offenses/{offense\_id} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 167. GET /siem/offenses/{offense\_id} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	PATH	Required	Number	text/plain	Required. The offense ID.

Table 168. GET /siem/offenses/{offense\_id} response codes.

HTTP Response Code	Unique Code	Description
200		The offense was retrieved.
404	1002	No offense was found for the provided offense_id.

Table 168. GET /siem/offenses/{offense\_id} response codes (continued).

HTTP Response Code	Unique Code	Description
422	1005	A request parameter is not valid.
500	1020	An error occurred while the offense was being retrieved.

## Response Description

An Offense object. An Offense object contains the following fields:

Field	Format	Description
id	Number	The ID of the offense.
description	String	The description of the offense.
assigned_to	String	The user the offense is assigned to.
categories	Array of strings	Event categories that are associated with the offense.
category_count	Number	The number of event categories that are associated with the offense.
policy_category_count	Number	The number of policy event categories that are associated with the offense.
security_category_count	Number	The number of security event categories that are associated with the offense.
close_time	Number	The number of milliseconds since epoch when the offense was closed.
closing_user	String	The user that closed the offense.
closing_reason_id	Number	The ID of the offense closing reason. The reason the offense was closed.
credibility	Number	The credibility of the offense.
relevance	Number	The relevance of the offense.
severity	Number	The severity of the offense.
magnitude	Number	The magnitude of the offense.
destination_networks	Array of strings	The destination networks that are associated with the offense.
source_network	String	The source network that is associated with the offense.

Field	Format	Description
device_count	Number	The number of devices that are associated with the offense.
event_count	Number	The number of events that are associated with the offense.
flow_count	Number	The number of flows that are associated with the offense.
inactive	Boolean	True if the offense is inactive.
last_updated_time	Number	The number of milliseconds since epoch when the offense was last updated.
local_destination_count	Number	The number of local destinations that are associated with the offense.
offense_source	String	The source of the offense.
offense_type	Number	A number that represents the offense type.
protected	Boolean	True if the offense is protected.
follow_up	Boolean	True if the offense is marked for follow up.
remote_destination_count	Number	The number of remote destinations that are associated with the offense.
source_count	Number	The number of sources that are associated with the offense.
start_time	Number	The number of milliseconds since epoch when the offense was started.
status	String	The status of the offense. One of "OPEN", "HIDDEN", or "CLOSED".
username_count	Number	The number of user names that are associated with the offense.

The following table identifies offense type codes:

Code	Offense Type
0	Source IP
1	Destination IP
2	Event Name
3	User name
4	Source MAC Address
5	Destination MAC Address
6	Log Source

Code	Offense Type
7	Hostname
8	Source Port
9	Destination Port
10	Source IPv6
11	Destination IPv6
12	Source ASN
13	Destination ASN
14	Rule
15	App Id
18	Scheduled Search

## Response Sample

```
{
  "assigned_to": "String",
  "categories": [
    "String",
    "String",
    "String"
  ],
  "category_count": 42,
  "close_time": 42,
  "closing_reason_id": 42,
  "closing_user": "String",
  "credibility": 42,
  "description": "String",
  "destination_networks": [
    "String",
    "String",
    "String"
  ],
  "device_count": 42,
  "event_count": 42,
  "flow_count": 42,
  "follow_up": true,
  "id": 42,
  "inactive": true,
  "last_updated_time": 42,
  "local_destination_count": 42,
  "magnitude": 42,
  "offense_source": "String",
  "offense_type": 42,
  "policy_category_count": 42,
  "protected": true,
  "relevance": 42,
  "remote_destination_count": 42,
  "security_category_count": 42,
  "severity": 42,
  "source_count": 42,
  "source_network": "String",
  "start_time": 42,
  "status": "String <one of: OPEN, HIDDEN, CLOSED>",
  "username_count": 42
}
```

## POST /siem/offenses/{offense\_id}

Update an offense.

Table 169. POST /siem/offenses/{offense\_id} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 170. POST /siem/offenses/{offense\_id} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	PATH	Required	Number	text/plain	Required. The ID of the offense to update.
protected	QUERY	Optional	Boolean	text/plain	Optional. Set to true to protect the offense.
follow_up	QUERY	Optional	Boolean	text/plain	Optional. Set to true to set the follow up flag on the offense.
status	QUERY	Optional	String	text/plain	Optional. The new status for the offense. Set to one of: OPEN, HIDDEN, CLOSED. When the status of an offense is being set to CLOSED, a valid closing_reason_id must be provided. To hide an offense, use the HIDDEN status. To show a previously hidden offense, use the OPEN status.
closing_reason_id	QUERY	Optional	Number	text/plain	Optional. The ID of a closing reason. You must provide a valid closing_reason_id when you close an offense.
assigned_to	QUERY	Optional	String	text/plain	Optional. A user to assign the offense to.

Table 171. POST /siem/offenses/{offense\_id} response codes.

HTTP Response Code	Unique Code	Description
200		The offense was updated.
404	1002	No offense was found for the provided offense_id.
422	1005	A request parameter is not valid.
500	1020	An error occurred while the offense was being updated.
409	1008	Request cannot be completed due to the state of the offense.
403	1009	User does not have the required capability to assign an offense.

## Response Description

An updated Offense object. An Offense object contains the following fields:

Field	Format	Description
id	Number	The ID of the offense.
description	String	The description of the offense.
assigned_to	String	The user the offense is assigned to.
categories	Array of strings	Event categories that are associated with the offense.
category_count	Number	The number of event categories that are associated with the offense.
policy_category_count	Number	The number of policy event categories that are associated with the offense.
security_category_count	Number	The number of security event categories that are associated with the offense.
close_time	Number	The number of milliseconds since epoch when the offense was closed.
closing_user	String	The user that closed the offense.
closing_reason_id	Number	The ID of the offense closing reason. The reason the offense was closed.
credibility	Number	The credibility of the offense.
relevance	Number	The relevance of the offense.
severity	Number	The severity of the offense.
magnitude	Number	The magnitude of the offense.
destination_networks	Array of strings	The destination networks that are associated with the offense.
source_network	String	The source network that is associated with the offense.
device_count	Number	The number of devices that are associated with the offense.
event_count	Number	The number of events that are associated with the offense.
flow_count	Number	The number of flows that are associated with the offense.
inactive	Boolean	True if the offense is inactive.
last_updated_time	Number	The number of milliseconds since epoch when the offense was last updated.

Field	Format	Description
local_destination_count	Number	The number of local destinations that are associated with the offense.
offense_source	String	The source of the offense.
offense_type	Number	A number that represents the offense type.
protected	Boolean	True if the offense is protected.
follow_up	Boolean	True if the offense is marked for follow up.
remote_destination_count	Number	The number of remote destinations that are associated with the offense.
source_count	Number	The number of sources that are associated with the offense.
start_time	Number	The number of milliseconds since epoch when the offense was started.
status	String	The status of the offense. One of "OPEN", "HIDDEN", or "CLOSED".
username_count	Number	The number of user names that are associated with the offense.

The following table identifies offense type codes:

Code	Offense Type
0	Source IP
1	Destination IP
2	Event Name
3	User name
4	Source MAC Address
5	Destination MAC Address
6	Log Source
7	Hostname
8	Source Port
9	Destination Port
10	Source IPv6
11	Destination IPv6
12	Source ASN
13	Destination ASN
14	Rule
15	App Id
18	Scheduled Search

Response Sample

```
{
  "assigned_to": "String",
  "categories": [
    "String",
    "String",
    "String"
  ],
  "category_count": 42,
  "close_time": 42,
  "closing_reason_id": 42,
  "closing_user": "String",
  "credibility": 42,
  "description": "String",
  "destination_networks": [
    "String",
    "String",
    "String"
  ],
  "device_count": 42,
  "event_count": 42,
  "flow_count": 42,
  "follow_up": true,
  "id": 42,
  "inactive": true,
  "last_updated_time": 42,
  "local_destination_count": 42,
  "magnitude": 42,
  "offense_source": "String",
  "offense_type": 42,
  "policy_category_count": 42,
  "protected": true,
  "relevance": 42,
  "remote_destination_count": 42,
  "security_category_count": 42,
  "severity": 42,
  "source_count": 42,
  "source_network": "String",
  "start_time": 42,
  "status": "String <one of: OPEN, HIDDEN, CLOSED>",
  "username_count": 42
}
```

GET /siem/offenses/{offense\_id}/notes

Retrieve a list of notes for an offense.

Table 172. GET /siem/offenses/{offense\_id}/notes resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 173. GET /siem/offenses/{offense\_id}/notes request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	PATH	Required	Number	text/plain	Required. The offense ID to retrieve the notes for.



Table 174. GET /siem/offenses/{offense\_id}/notes response codes.

HTTP Response Code	Unique Code	Description
200		The note list was retrieved.
404	1002	No offense was found for the provided offense_id.
422	1005	A request parameter is not valid.
500	1020	An error occurred while the note list was being retrieved.

## Response Description

An array of Note objects. A Note object contains the following fields:

Field	Format	Description
id	Number	The ID of the note.
create_time	Number	The number of milliseconds since epoch when the note was created.
username	String	The user or authorized service that created the note.
note_text	String	The note text.

## Response Sample

```
[
  {
    "create_time": 42,
    "id": 42,
    "note_text": "String",
    "username": "String"
  },
  {
    "create_time": 42,
    "id": 42,
    "note_text": "String",
    "username": "String"
  },
  {
    "create_time": 42,
    "id": 42,
    "note_text": "String",
    "username": "String"
  }
]
```

## POST /siem/offenses/{offense\_id}/notes

Create a note on an offense.

Table 175. POST /siem/offenses/{offense\_id}/notes resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 176. POST /siem/offenses/{offense\_id}/notes request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	PATH	Required	Number	text/plain	Required. The offense ID to add the note to.
note_text	QUERY	Required	String	text/plain	Required. The note text.

Table 177. POST /siem/offenses/{offense\_id}/notes response codes.

HTTP Response Code	Unique Code	Description
201		The note was created.
404	1002	No offense was found for the provided offense_id.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to create the note.

### Response Description

The Note object that was created. A Note object contains the following fields:

Field	Format	Description
id	Number	The ID of the note.
create_time	Number	The number of milliseconds since epoch when the note was created.
username	String	The user or authorized service that created the note.
note_text	String	The note text.

### Response Sample

```
{
  "create_time": 42,
  "id": 42,
  "note_text": "String",
  "username": "String"
}
```

## GET /siem/offenses/{offense\_id}/notes/{note\_id}

Retrieve a note for an offense.

Table 178. GET /siem/offenses/{offense\_id}/notes/{note\_id} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 179. GET /siem/offenses/{offense\_id}/notes/{note\_id} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	PATH	Required	Number	text/plain	Required. The offense ID to retrieve the note from.
note_id	PATH	Required	Number	text/plain	Required. The note ID.

Table 180. GET /siem/offenses/{offense\_id}/notes/{note\_id} response codes.

HTTP Response Code	Unique Code	Description
200		The note was retrieved.
404	1002	No offense was found for the provided offense_id.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the note.
404	1003	No note was found for the provided note_id.

## Response Description

The Note object for the note ID. A Note object contains the following fields:

Field	Format	Description
id	Number	The ID of the note.
create_time	Number	The number of milliseconds since epoch when the note was created.
username	String	The user or authorized service that created the note.
note_text	String	The note text.

## Response Sample

```
{
  "create_time": 42,
  "id": 42,
  "note_text": "String",
  "username": "String"
}
```

---

## Chapter 6. Previous REST API versions

Use this reference if you are using REST API version 2.0 or previous.

---

### REST API V2.0 References

Each API reference provides information about the parameters, mime type, stability, and responses for each endpoint.

#### Ariel endpoints

Use the references for REST API V2 Ariel endpoints.

##### **GET /ariel/databases**

Retrieve Ariel database names.

Retrieve a list of the Ariel databases that are available.

*Table 181. GET /ariel/databases resource details.*

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

*Table 182. GET /ariel/databases response codes.*

HTTP Response Code	Unique Code	Description
200		The database list was retrieved.
500	1020	An error occurred while attempting to retrieve the list of Ariel databases.

#### Response Description

The names of the Ariel databases that are available.

#### Response Sample

```
[  
  "String",  
  "String",  
  "String"  
]
```

##### **GET /ariel/databases/{database\_name}**

Retrieve the columns defined for a specific Ariel database

Retrieve the columns that are defined for the specified Ariel database. This is the set of columns that can be explicitly named in the column list of a SELECT query. Also, it is the set of columns that is selected by the query expression 'SELECT \* from database'.

Table 183. GET /ariel/databases/{database\_name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 184. GET /ariel/databases/{database\_name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
database_name	PATH	Required	String	text/plain	Required. The name of the Ariel database to retrieve the columns for.

Table 185. GET /ariel/databases/{database\_name} response codes.

HTTP Response Code	Unique Code	Description
200		The database columns were retrieved.
404	1002	The database does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the database columns.

## Response Description

A list of columns defined for the specified database. Multiple properties of each column are returned. For example, the column ID, or an indication of if the column is indexable.

## Response Sample

```
{
  "columns": [
    {
      "argument_type": "String <one of: OBJECT, IP, IPV_6, NUMERIC, METRIC,
        TIME, PORT, STRING, BOOLEAN, GROUP, QUICKSEARCH, REFERENCE>",
      "calculated": true,
      "custom": true,
      "id": "String",
      "indexable": true,
      "label": "String"
    }
  ]
}
```

## GET /ariel/searches

Retrieve Ariel search IDs.

Retrieve the list of Ariel searches. This includes search\_ids for completed and active searches.

Table 186. GET /ariel/searches resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 187. GET /ariel/searches response codes.

HTTP Response Code	Unique Code	Description
200		The search list was retrieved.
500	1020	An error occurred while attempting to retrieve the list of searches.

## Response Description

A list of the search IDs.

## Response Sample

```
[
  "String",
  "String",
  "String"
]
```

## POST /ariel/searches

Create a new asynchronous Ariel search.

Creates a new Ariel search as specified by the Ariel Query Language (AQL) query expression. Searches are executed asynchronously. A reference to the search\_id is returned and should be used in subsequent API calls to determine the status of the search and retrieve the results once it is complete.

This endpoint only accepts SELECT and RUN query expressions.

Queries are applied to the range of data in a certain time interval. By default this time interval is the last 60 seconds. An alternative time interval can be specified by providing values for the start\_time and end\_time parameters. These parameters are used to express an inclusive time range, each value is interpreted as the number of milliseconds since 0:00:00, January 1, 1970 UTC. If both start\_time and end\_time parameters are not provided, the query interval defaults to the last 60 seconds. Alternatively a time interval can be specified as part of the query expression which takes precedence over the start\_time and end\_time parameters. For further information, see the AQL reference.

Table 188. POST /ariel/searches resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 189. POST /ariel/searches request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
query_expression	QUERY	Required	String	text/plain	Required. The AQL query to execute.
search_id	QUERY	Optional	String	text/plain	Optional. A search_id value to be used for the new search instead of a system generated search_id. The search_id must be unique and is only used for SELECT query expressions. The search_id can only contain numbers, letters, dashes and/or underscores.
start_time	QUERY	Optional	Number	text/plain	Optional. The beginning of the query time interval, in milliseconds since 0:00:00 1/1/1970. The query_expression time interval takes precedence over this value.
end_time	QUERY	Optional	Number	text/plain	Optional. The end of the query time interval, in milliseconds since 0:00:00 1/1/1970. The query_expression time interval takes precedence over this value.

Table 190. POST /ariel/searches response codes.

HTTP Response Code	Unique Code	Description
201		A new Ariel search was successfully created.
422	2000	The query_expression contains invalid AQL syntax.
409	1004	The search could not be created, the search_id provided is already in use. Please use a unique search_id.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to create a new search.



## Response Description

Information about the specified search, including the search\_id. Use the search\_id to access or manipulate the search with the other API endpoints. If the exact search being created was already recently created, the response message will return a reference to the original search\_id rather than creating a new search.

## Response Sample

```
{
  "processed_record_count": 42,
  "progress": 42,
  "query_execution_time": 42,
  "record_count": 42,
  "save_results": true,
  "search_id": "String",
  "status": "String <one of: WAIT, EXECUTE, SORTING, COMPLETED, CANCELED, ERROR>"
}
```

## GET /ariel/searches/{search\_id}

Retrieve information about a given Ariel search.

Retrieve status information for a search, based on the search\_id parameter. The same informational fields are returned regardless of whether the search is currently executing or is complete.

Table 191. GET /ariel/searches/{search\_id} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 192. GET /ariel/searches/{search\_id} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
search_id	PATH	Required	String	text/plain	Required. The identifier for an Ariel search.

Table 193. GET /ariel/searches/{search\_id} response codes.

HTTP Response Code	Unique Code	Description
200		The search information was retrieved.
404	1002	The search does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the search information.

## Response Description

Information about the specified search, including search status.

## Response Sample

```
{
  "processed_record_count": 42,
  "progress": 42,
  "query_execution_time": 42,
  "record_count": 42,
  "save_results": true,
  "search_id": "String",
  "status": "String <one of: WAIT, EXECUTE, SORTING, COMPLETED, CANCELED, ERROR>"
}
```

## POST /ariel/searches/{search\_id}

Update an Ariel search.

Updates details for an Ariel search. Searches can be updated in the following two ways:

- An active search can be canceled by setting the **status** parameter to "CANCELED". This stops the search and keeps any search results that were collected before the search was canceled.
- The results for a completed search can be saved by setting the **save\_results** parameter to "true". This ensures that the search is not automatically removed when it expires in accordance with the retention policy.

The Ariel server uses an internal retention policy to manage available disk space. Searches might be deleted automatically, according to the settings of the retention policy. Searches with saved results are not automatically reclaimed by the server and are therefore retained. A search can be explicitly deleted using the endpoint 'DELETE /searches/{search\_id}'.

**Note:** Saving too many search results might result in insufficient disk space to process new searches.

Table 194. POST /ariel/searches/{search\_id} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 195. POST /ariel/searches/{search\_id} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
search_id	PATH	Required	String	text/plain	Required. The ID of the search to update.
save_results	QUERY	Optional	String	text/plain	Optional. The only accepted value is 'true'. If this value is provided, the search results will not be deleted by the search expiration removal process.

Table 195. *POST /ariel/searches/{search\_id}* request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
status	QUERY	Optional	String	text/plain	Optional. The only accepted value is 'CANCELED'. If this value is provided the search will be canceled.

Table 196. *POST /ariel/searches/{search\_id}* response codes.

HTTP Response Code	Unique Code	Description
200		The search was updated.
404	1002	The search does not exist.
422	1005	A request parameter is not valid.
409	1008	The current status of the search prevented the search results from being saved.
500	1020	An error occurred while attempting to update the search.

## Response Description

Information about the specified search that was updated.

## Response Sample

```
{
  "processed_record_count": 42,
  "progress": 42,
  "query_execution_time": 42,
  "record_count": 42,
  "save_results": true,
  "search_id": "String",
  "status": "String <one of: WAIT, EXECUTE, SORTING, COMPLETED, CANCELED, ERROR>"
}
```

## DELETE /ariel/searches/{search\_id}

Delete an Ariel search.

Deletes an Ariel search. This discards any results that were collected and stops the search if it is currently processing. This search is deleted regardless of whether the results were saved.

Table 197. *DELETE /ariel/searches/{search\_id}* resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 198. DELETE /ariel/searches/{search\_id} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
search_id	PATH	Required	String	text/plain	Required. The search_id of the search to delete.

Table 199. DELETE /ariel/searches/{search\_id} response codes.

HTTP Response Code	Unique Code	Description
204		The search was deleted.
404	1002	The search does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to delete the search.

## Response Description

There is no response body for a successfully deleted Ariel Search.

## GET /ariel/searches/{search\_id}/results

Retrieves search results in the format requested.

Retrieve the results of the Ariel search that is identified by the search\_id. The results are returned in the format indicated by the 'Accepts' request header. The format can be JSON, CSV, XML, or tabular text. By default, all query result records are returned. To restrict the results to a contiguous subset of the records, supply the range\_start and range\_end parameters to specify the inclusive range of records to be returned. This end-point works with query results that are generated by AQL query expressions. This endpoint might not work as expected for results that are generated by other means. Search results may not be retrievable for searches that are created in the Console.

Table 200. GET /ariel/searches/{search\_id}/results resource details.

Stability	MIME Type
EXPERIMENTAL	application/json application/csv text/table application/xml

Table 201. GET /ariel/searches/{search\_id}/results request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
search_id	PATH	Required	String	text/plain	The ID of the search whose results are to be returned.

Table 201. GET /ariel/searches/{search\_id}/results request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
range_start	QUERY	Optional	JSON	text/plain	The first row of the range of records to return, starting from one (1).
range_end	QUERY	Optional	JSON	text/plain	The last row of the range of records to be return.

Table 202. GET /ariel/searches/{search\_id}/results response codes.

HTTP Response Code	Unique Code	Description
200		The search results were retrieved.
404	1002	The search does not exist.
404	1003	Search results not found, the search is still in progress.
422	1005	A request parameter is not valid.
422	1007	Retrieving the search results for this search_id is unsupported.
500	1020	An error occurred while attempting to retrieve the search results.

## Response Description

The search results for the specified search\_id. The format that is used to encapsulate the data depends on the format specified in the 'Accept' header for this request.

## Response Sample

## Asset Model endpoints

Use the references for REST API V2 Asset Model endpoints.

### GET /asset\_model/assets

List all assets found in the model.

Table 203. GET /asset\_model/assets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 204. GET /asset\_model/assets response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve assets completed successfully.
500	1020	The server encountered an error while trying to retrieve the assets.

## Response Description

List of assets retrieved using the associated asset saved search.

## Response Sample

```
[
  {
    "id": 42,
    "interfaces": [
      {
        "created": 42,
        "first_seen_profiler": 42,
        "first_seen_scanner": 42,
        "id": 42,
        "ip_addresses": [
          {
            "created": 42,
            "first_seen_profiler": 42,
            "first_seen_scanner": 42,
            "id": 42,
            "last_seen_profiler": 42,
            "last_seen_scanner": 42,
            "network_id": 42,
            "type": "String",
            "value": "String"
          }
        ],
        "last_seen_profiler": 42,
        "last_seen_scanner": 42,
        "mac_address": "String"
      }
    ],
    "properties": [
      {
        "id": 42,
        "last_reported": 42,
        "last_reported_by": "String",
        "name": "String",
        "type_id": 42,
        "value": "String"
      }
    ]
  }
]
```

## POST /asset\_model/assets/{asset\_id}

Update an asset with several pertinent pieces of information.

The **asset\_id** tag is mandatory, and is the unique identifier for an asset. This field is available through the **/asset\_model/assets** or **/asset\_model/saved\_searches/{saved\_search\_id}/results** query. To update properties, the property type id which

is available through the `/asset_model/properties` query should be provided along with the new value. See the sample provided demonstrating an example asset update.

*Table 205. POST /asset\_model/assets/{asset\_id} resource details.*

Stability	MIME Type
EXPERIMENTAL	text/plain

*Table 206. POST /asset\_model/assets/{asset\_id} request parameter details.*

Parameter	Type	Optionality	Data Type	MIME Type	Description
asset_id	PATH	Required	String	text/plain	Unique identifier of the asset to update.

*Table 207. POST /asset\_model/assets/{asset\_id} request body details.*

Parameter	Data Type	MIME Type	Description	Sample
asset	JSON	application/json	JSON representation of an asset.	{ "properties": [ { "type_id": 1001, "value": "given name value" }, { "type_id": 1002, "value": "unified name value" } ] }

*Table 208. POST /asset\_model/assets/{asset\_id} response codes.*

HTTP Response Code	Unique Code	Description
202		The request to update the asset was successful. The update will take place when the asset profile application receives the request.
422	1005	One or more of the requested property updates were invalid.
500	1020	The server encountered an error registering the update with the asset profile application.

## Response Description

Information about the asset that was updated.

## Response Sample

String

## GET /asset\_model/properties

Get a list of available asset property types that can be used or applied against the `/asset_model/assets` endpoint.

*Table 209. GET /asset\_model/properties resource details.*

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 210. GET /asset\_model/properties response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve the list of asset property types completed successfully.
500	1020	An error occurred while trying to retrieve the list of asset property types.

## Response Description

List of asset properties. Per asset property type: id and name that make up this asset property type.

## Response Sample

```
[
  {
    "custom": true,
    "data_type": "String",
    "display": true,
    "id": 42,
    "name": "String",
    "state": 42
  }
]
```

## GET /asset\_model/saved\_searches

Get a list of saved searches that can be used or applied against the /asset\_model/saved\_searches/{saved\_search\_id}/results query.

Table 211. GET /asset\_model/saved\_searches resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 212. GET /asset\_model/saved\_searches response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve the list of saved searches completed successfully.
500	1020	The server encountered an error while trying to retrieve the list of saved searches.

## Response Description

List of saved searches. Per saved search: id, name and list of filters that make up this saved search



## Response Sample

```
[
  {
    "columns": [
      {
        "name": "String",
        "type": "String"
      },
      {
        "name": "String",
        "type": "String"
      },
      {
        "name": "String",
        "type": "String"
      }
    ],
    "description": "String",
    "filters": [
      {
        "operator": "String",
        "parameter": "String",
        "value": "String"
      },
      {
        "operator": "String",
        "parameter": "String",
        "value": "String"
      },
      {
        "operator": "String",
        "parameter": "String",
        "value": "String"
      }
    ],
    "id": 42,
    "name": "String"
  }
]
```

## GET /asset\_model/saved\_searches/{saved\_search\_id}/results

Retrieves a list of assets based on the results of an asset saved search.

Table 213. GET /asset\_model/saved\_searches/{saved\_search\_id}/results resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 214. GET /asset\_model/saved\_searches/{saved\_search\_id}/results request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
saved_search_id	PATH	Required	String	text/plain	Unique identifier of the saved search used to retrieve assets.

Table 215. GET /asset\_model/saved\_searches/{saved\_search\_id}/results response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve assets completed successfully.

Table 215. GET /asset\_model/saved\_searches/{saved\_search\_id}/results response codes (continued).

HTTP Response Code	Unique Code	Description
422	1005	The unique identifier of the saved search provided was invalid.
500	1003	The server encountered an error executing the saved search.

## Response Description

List of assets retrieved using the associated asset saved search.

## Response Sample

```
[
  {
    "id": 42,
    "interfaces": [
      {
        "created": 42,
        "first_seen_profiler": 42,
        "first_seen_scanner": 42,
        "id": 42,
        "ip_addresses": [
          {
            "created": 42,
            "first_seen_profiler": 42,
            "first_seen_scanner": 42,
            "id": 42,
            "last_seen_profiler": 42,
            "last_seen_scanner": 42,
            "network_id": 42,
            "type": "String",
            "value": "String"
          }
        ],
        "last_seen_profiler": 42,
        "last_seen_scanner": 42,
        "mac_address": "String"
      }
    ],
    "properties": [
      {
        "id": 42,
        "last_reported": 42,
        "last_reported_by": "String",
        "name": "String",
        "type_id": 42,
        "value": "String"
      }
    ]
  }
]
```

## Authentication endpoints

Use the references for REST API V1.0 authentication endpoints.

## POST /auth/logout

Invoke this method as an authorized user and your session will be invalidated.

Table 216. POST /auth/logout resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

There are no parameters for this endpoint.

## Response Description

Returns true. Throws exception upon failure.

## Response Sample

```
true
```

## Help endpoints

Use the references for REST API V1.0 help endpoints.

## GET /help/capabilities

List all QRadar API capabilities.

List the QRadar API capabilities. The response will contain all available RESTful resources We allow every authenticated user to access this method, but restrict the output based on their user capabilities

Table 217. GET /help/capabilities resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 218. GET /help/capabilities request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
categories	QUERY	Optional	JSON	application/json	Restrict your search to this list of capabilities.
paths	QUERY	Optional	JSON	application/json	Restrict your search to these paths only.
httpMethods	QUERY	Optional	JSON	application/json	Restrict your search to these HTTP methods.
version	QUERY	Optional	JSON	text/plain	Restrict your search to this version (or below).
showExperimental	QUERY	Optional	Boolean	text/plain	If true, we include experimental endpoints (default is true).

Table 219. GET /help/capabilities response codes.

HTTP Response Code	Unique Code	Description
422	1001	Invalid input
422	1002	Our internal mapping has an unexpected structure or contains an invalid element value.

Table 219. GET /help/capabilities response codes (continued).

HTTP Response Code	Unique Code	Description
500	1003	A generic error has occurred while retrieving our capabilities.

## Response Sample

```
{
  "categories": [
    {
      "apis": [
        {
          "httpMethod": "String &lt;one of: OPTIONS, GET, HEAD, POST, PUT, DELETE, TRACE, CONNECT, PATCH>",
          "operations": [
            {
              "additionalFiltering": true,
              "deprecated": true,
              "description": "String",
              "errorResponses": [
                {
                  "code": 42,
                  "description": "String",
                  "uniqueCode": 42
                }
              ],
              "httpMethod": "String",
              "lastSupportedVersion": 42.5,
              "parameters": [
                {
                  "allowMultiple": true,
                  "description": "String",
                  "name": "String",
                  "pathIndex": 42,
                  "required": true,
                  "source": "String",
                  "supportedContentTypes": [
                    {
                      "dataType": "String",
                      "mimeType": "String",
                      "sample": "String"
                    }
                  ]
                }
              ]
            },
            {
              "removalTarget": 42.5,
              "removed": true,
              "responseClass": "String",
              "responseDescription": {
                "description": "String",
                "properties": [
                  {
                    "description": "String",
                    "name": "String"
                  }
                ]
              }
            }
          ],
          "successResponses": [
            {
              "code": 42,
              "description": "String"
            }
          ],
          "summary": "String",
          "supportedContentTypes": [
            {
              "dataType": "String",
              "mimeType": "String",
              "sample": "String"
            }
          ],
          "version": 42.5,
          "visibility": "String"
        }
      ]
    }
  ]
}
```

```

    ],
    "path": "String"
  },
  ],
  "path": "String"
},
"path": "String"
}
}

```

## QRadar Vulnerability Manager endpoints

Use the references for REST API V2 QRadar Vulnerability Manager endpoints.

### GET /qvm/assets

List the assets with discovered vulnerabilities present in the asset model. The response will contain all available RESTful resources

Table 220. GET /qvm/assets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 221. GET /qvm/assets request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	Id of saved search
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

Table 222. GET /qvm/assets request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	Id of saved search
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

### Response Description

list of assets data

### Response Sample

#### GET /qvm/filters

Get a list of the allowable QRadar Vulnerability Manager filters.

Get a list of the allowable filters that can be used or applied against the following queries:

- /qvm/assets
- /qvm/vulns

- /qvm/vulninstances
- /qvm/openservices
- /qvm/networks

Table 223. GET /qvm/filters resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 224. GET /qvm/filters response codes.

HTTP Response Code	Unique Code	Description
200		The search executed successfully.
420	9102	An error occurred while executing the search.

## Response Description

List of filters.

## Response Sample

### GET /qvm/network

List the networks present in the asset model with vulnerabilities present. The response contains all available RESTful resources.

Table 225. GET /qvm/network resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 226. GET /qvm/network request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	ID of saved search
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

Table 227. GET /qvm/network response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve vulnerabilities by network completed successfully.
420	9101	Invalid search parameters, search cannot be performed.

## Response Description

List of network related data.

## Response Sample

### GET /qvm/openservices

List the open services present in the asset model with vulnerabilities present. The response contains all available RESTful resources.

Table 228. GET /qvm/openservices resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 229. GET /qvm/openservices request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	ID of saved search
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

Table 230. GET /qvm/openservices response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve vulnerabilities by open service completed successfully.
420	9101	Invalid search parameters, search cannot be performed.

## Response Description

List of open services related data.

## Response Sample

### GET /qvm/savedsearches

Get a list of saved QRadar Vulnerability Manager searches

Get a list of saved searches that can be used or applied against the following queries:

- /qvm/assets
- /qvm/vulns
- /qvm/vulninstances
- /qvm/openservices
- /qvm/networks

Table 231. GET /qvm/savedsearches resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 232. GET /qvm/savedsearches response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve the list of saved searches completed successfully.
420	9103	An error occurred while trying to retrieve the list of saved searches.

## Response Description

List of saved searches.

## Response Sample

### POST /qvm/tickets/assign

Update the remediation ticket for the assigned vulnerability.

Table 233. POST /qvm/tickets/assign resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 234. POST /qvm/tickets/assign request body details.

Parameter	Data Type	MIME Type	Description	Sample
ticket	JSON	application/json		

Table 235. POST /qvm/tickets/assign response codes.

HTTP Response Code	Unique Code	Description
200		The request to assign a ticket completed successfully.
420	9104	An error occurred while trying to assign a ticket due to invalid arguments.

## Response Description

Success message if update succeed.



## Response Sample

### GET /qvm/vulninstances

List the Vulnerability Instances present in the asset model. The response contains all available RESTful resources.

Table 236. GET /qvm/vulninstances resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 237. GET /qvm/vulninstances request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	ID of saved search
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

Table 238. GET /qvm/vulninstances response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve vulnerabilities by instance completed successfully.
420	9101	Invalid search parameters, search cannot be performed.

## Response Description

List of vulnerability instance data.

### GET /qvm/vulns

List the Vulnerabilities present in the asset model. The response contains all available RESTful resources.

Table 239. GET /qvm/vulns resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 240. GET /qvm/vulns request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	ID of saved search
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

Table 241. GET /qvm/vulns response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve vulnerabilities completed successfully.
420	9101	Invalid search parameters, search cannot be performed.

## Response Description

list of vulnerability data

## Reference Data endpoints

Use the references for REST API V2 Reference Data endpoints.

### GET /reference\_data/map\_of\_sets

Retrieve a list of all reference map of sets.

Table 242. GET /reference\_data/map\_of\_sets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 243. GET /reference\_data/map\_of\_sets response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference map of sets.

## Response Description

A list of all of the reference map of sets. This returns information about the map of sets but not the contained data.

## Response Sample

```
[
  {
    "creation_time": 42,
    "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "key_label": "String",
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "value_label": "String"
  }
]
```

## POST /reference\_data/map\_of\_sets

Create a new reference map of sets.

Table 244. POST /reference\_data/map\_of\_sets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 245. POST /reference\_data/map\_of\_sets request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference map of sets to create.
element_type	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference map of sets. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
key_label	QUERY	Optional	String	text/plain	Optional. The label to describe the keys.
value_label	QUERY	Optional	String	text/plain	Optional. The label to describe the data values.
timeout_type	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the time_to_live interval is based on when the data was first seen or last seen.
time_to_live	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes".

Table 246. POST /reference\_data/map\_of\_sets response codes.

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference map of sets could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference map of sets.

## Response Description

Information about the newly created reference map of sets.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "value_label": "String"
}
```

## GET /reference\_data/map\_of\_sets/{name}

Return the reference map of sets identified by the **name** parameter.

If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 247. GET /reference\_data/map\_of\_sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 248. GET /reference\_data/map\_of\_sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to retrieve
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference map of sets. The default value is 0.

Table 249. GET /reference\_data/map\_of\_sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets has been retrieved.
404	1002	The reference map of sets does not exist.

Table 249. GET /reference\_data/map\_of\_sets/{name} response codes (continued).

HTTP Response Code	Unique Code	Description
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference map of sets.

## Response Description

The reference map of sets identified by the name specified in the request. The portion of the reference map of sets' data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "creation_time": 42,
  "data": {
    "String1": [
      {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      }
    ],
    "String2": [
      {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      }
    ],
    "String3": [
      {
        "first_seen": 42,
```

```

        "last_seen": 42,
        "source": "String",
        "value": "String"
    },
    {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
    },
    {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
    }
]
},
"element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
"key_label": "String",
"name": "String",
"number_of_elements": 42,
"time_to_live": "String",
"timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
"value_label": "String"
}

```

## POST /reference\_data/map\_of\_sets/{name}

Add or update an element in a reference map of sets.

Table 250. POST /reference\_data/map\_of\_sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 251. POST /reference\_data/map\_of\_sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to add or update an element in
key	QUERY	Required	String	text/plain	Required. The key of the set to add or update
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference map of sets. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 251. *POST /reference\_data/map\_of\_sets/{name}* request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
source	QUERY	Optional	String	text/plain	Optional. This indicates where the data originated. The default value is 'reference data api'

Table 252. *POST /reference\_data/map\_of\_sets/{name}* response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets has had an element added or updated.
404	1002	The reference map of sets does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference map of sets.

## Response Description

Information about the reference map of sets that has had an element added or updated. This returns information about the reference map of sets but not the contained data.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "value_label": "String"
}
```

## DELETE /reference\_data/map\_of\_sets/{name}

Remove a map of sets or purge its contents.

Table 253. *DELETE /reference\_data/map\_of\_sets/{name}* resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 254. DELETE /reference\_data/map\_of\_sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to remove or purge
purge_only	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference map of sets should have its contents purged (true), keeping the reference map of sets structure. If the value is "false" or not specified the reference map of sets will be removed completely.

Table 255. DELETE /reference\_data/map\_of\_sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had its contents purged.
204		The reference map has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference map of sets does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference map of sets.

## Response Description

If the reference map of sets was removed nothing is returned, otherwise information about the reference map of sets that had its contents purged is returned.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "value_label": "String"
}
```



## DELETE /reference\_data/map\_of\_sets/{name}/{key}

Remove a value from a reference map of sets.

Table 256. DELETE /reference\_data/map\_of\_sets/{name}/{key} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 257. DELETE /reference\_data/map\_of\_sets/{name}/{key} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to remove a value from.
key	PATH	Required	String	text/plain	Required. The key of the value to remove.
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference map of sets. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 258. DELETE /reference\_data/map\_of\_sets/{name}/{key} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets has had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference map of sets does not exist.
404	1003	The record does not exist in the reference map of sets.
500	1020	An error occurred while attempting to remove the reference map of sets value.

### Response Description

Information about the reference map of sets that had a value removed. This returns information about the reference map of sets but not the contained data.

### Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
```

```

    "key_label": "String",
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "value_label": "String"
}

```

## GET /reference\_data/maps

Retrieve a list of all reference maps.

Table 259. GET /reference\_data/maps resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 260. GET /reference\_data/maps response codes.

HTTP Response Code	Unique Code	Description
200		The reference map list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference maps.

## Response Description

A list of all of the reference maps. This returns information about the maps but not the contained data.

## Response Sample

```

[
  {
    "creation_time": 42,
    "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "key_label": "String",
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "value_label": "String"
  }
]

```

## POST /reference\_data/maps

Create a new reference map.

Table 261. POST /reference\_data/maps resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 262. POST /reference\_data/maps request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference map to create
key_label	QUERY	Optional	String	text/plain	Optional. The label to describe the keys
value_label	QUERY	Optional	String	text/plain	Optional. The label to describe the data values
element_type	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference map. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
timeout_type	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the time_to_live interval is based on when the data was first seen or last seen.
time_to_live	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"

Table 263. POST /reference\_data/maps response codes.

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created.
422	1005	parameters were invalid.
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference map.

## Response Description

Information about the newly created reference map.

## Response Sample

```
[{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
```

```

    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "value_label": "String"
  }]

```

## GET /reference\_data/maps/{name}

Retrieve the reference map identified by the **name** parameter.

If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 264. GET /reference\_data/maps/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 265. GET /reference\_data/maps/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to retrieve
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference map. The default value is 0.

Table 266. GET /reference\_data/maps/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has been retrieved.
404	1002	The reference map does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference map.

## Response Description

The reference map identified by the name specified in the request. The portion of the reference map's data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "creation_time": 42,
  "data": {
    "String1": {
      "first_seen": 42,
      "last_seen": 42,
      "source": "String",
      "value": "String"
    },
    "String2": {
      "first_seen": 42,
      "last_seen": 42,
      "source": "String",
      "value": "String"
    },
    "String3": {
      "first_seen": 42,
      "last_seen": 42,
      "source": "String",
      "value": "String"
    }
  },
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "value_label": "String"
}
```

## POST /reference\_data/maps/{name}

Add or update an element in a reference map.

Table 267. POST /reference\_data/maps/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 268. POST /reference\_data/maps/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to add or update an element in
key	QUERY	Required	String	text/plain	Required. The key who's value we want to add or update

Table 268. *POST /reference\_data/maps/{name}* request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference map. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is 'reference data api'

Table 269. *POST /reference\_data/maps/{name}* response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had an element added or updated.
404	1002	The reference map does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference map.

## Response Description

Information about the reference map that had an element added or updated. This returns information about reference map but not the contained data.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "value_label": "String"
}
```

## DELETE /reference\_data/maps/{name}

Remove a reference map or purge its contents.

Table 270. DELETE /reference\_data/maps/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 271. DELETE /reference\_data/maps/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to remove or purge
purge_only	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference map should have its contents purged (true), keeping the reference map structure. If the value is "false" or not specified the reference map will be removed completely.

Table 272. DELETE /reference\_data/maps/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had its contents purged.
204		The reference map has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference map does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference map.

## Response Description

If the reference map was removed nothing is returned, otherwise information about the reference map that had its contents purged is returned.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
```

```

    "key_label": "String",
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "value_label": "String"
}

```

## DELETE /reference\_data/maps/{name}/{key}

Remove a value from a reference map.

Table 273. DELETE /reference\_data/maps/{name}/{key} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 274. DELETE /reference\_data/maps/{name}/{key} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to remove a value from
key	PATH	Required	String	text/plain	Required. The key of the value to remove
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference map. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 275. DELETE /reference\_data/maps/{name}/{key} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference map does not exist.
404	1003	The record does not exist in the reference map.
500	1020	An error occurred while attempting to remove the value from the reference map.

## Response Description

Information about the reference map that had an element removed. This returns information about map but not the contained data.



## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "value_label": "String"
}
```

## GET /reference\_data/sets

Retrieve a list of all reference sets.

Table 276. GET /reference\_data/sets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 277. GET /reference\_data/sets response codes.

HTTP Response Code	Unique Code	Description
200		The reference set list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference sets.

## Response Description

A list of all of the reference sets. This returns information about the sets but not the contained data.

## Response Sample

```
[
  {
    "creation_time": 42,
    "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  }
]
```

## POST /reference\_data/sets

Create a new reference set.

Table 278. POST /reference\_data/sets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 279. POST /reference\_data/sets request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference set being created
element_type	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference set. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
timeout_type	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the time_to_live interval is based on when the data was first seen or last seen.
time_to_live	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"

Table 280. POST /reference\_data/sets response codes.

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference set.

## Response Description

Information about the newly created reference set.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## POST /reference\_data/sets/bulk\_load/{name}

Add or update data in a reference set.

Table 281. POST /reference\_data/sets/bulk\_load/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 282. POST /reference\_data/sets/bulk\_load/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of set to add or update data in

Table 283. POST /reference\_data/sets/bulk\_load/{name} request body details.

Parameter	Data Type	MIME Type	Description	Sample
data	JSON	application/json	Required - The JSON formatted data to add or update in the reference set	["String", "String", "String", "String", "String", "String", "String", "String", "String", "String"]

Table 284. POST /reference\_data/sets/bulk\_load/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had data added or updated.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference set.
400	1001	An error occurred parsing the JSON formatted message body.

## Response Description

Information about the reference set that had data added or updated. This returns information about the reference set but not the contained data.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## GET /reference\_data/sets/{name}

Retrieve the reference set identified by the **name** parameter.

If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 285. GET /reference\_data/sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 286. GET /reference\_data/sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to retrieve
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference set. The default value is 0.

Table 287. GET /reference\_data/sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has been retrieved.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference set.

## Response Description

The reference set identified by the name specified in the request. The portion of the set's data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "creation_time": 42,
  "data": [
    {
      "first_seen": 42,
      "last_seen": 42,
      "source": "String",
      "value": "String"
    },
    {
      "first_seen": 42,
      "last_seen": 42,
      "source": "String",
      "value": "String"
    },
    {
      "first_seen": 42,
      "last_seen": 42,
      "source": "String",
      "value": "String"
    }
  ],
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## POST /reference\_data/sets/{name}

Add or update an element in a reference set.

Table 288. POST /reference\_data/sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 289. POST /reference\_data/sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to add or update an element in
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference set. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is 'reference data api'

Table 290. *POST /reference\_data/sets/{name}* response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had an element added or updated.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update an element in the reference set.

## Response Description

Information about the reference set that had an element added or updated. This returns information about the reference set but not the contained data.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## DELETE /reference\_data/sets/{name}

Remove a reference set or purge its contents.

Table 291. *DELETE /reference\_data/sets/{name}* resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 292. *DELETE /reference\_data/sets/{name}* request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the set to remove or purge

Table 292. DELETE /reference\_data/sets/{name} request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
purge_only	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference set should have its contents purged (true), keeping the reference set structure. If the value is "false" or not specified the reference set will be removed completely.

Table 293. DELETE /reference\_data/sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had its contents purged.
204		The reference set has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference set does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference set.

## Response Description

If the reference set was removed nothing is returned, otherwise information about the reference set that had its contents purged is returned.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## DELETE /reference\_data/sets/{name}/{value}

Remove a value from a reference set.

Table 294. DELETE /reference\_data/sets/{name}/{value} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 295. DELETE /reference\_data/sets/{name}/{value} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to remove a value from
value	PATH	Required	String	text/plain	Required. The value to remove from the reference set. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 296. DELETE /reference\_data/sets/{name}/{value} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference set does not exist.
404	1003	The record does not exist in the reference set.
500	1020	An error occurred while attempting to remove the value from the reference set.

## Response Description

Information about the reference set that had an value removed. This returns information about the reference set but not the contained data.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## GET /reference\_data/tables

Retrieve a list of all reference tables.

Table 297. GET /reference\_data/tables resource details.

Stability	MIME Type
EXPERIMENTAL	application/json



There are no parameters for this endpoint.

Table 298. GET /reference\_data/tables response codes.

HTTP Response Code	Unique Code	Description
200		The reference table list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference tables.

## Response Description

A list of all of the reference tables. This returns information about the tables but not the contained data.

## Response Sample

```
[
  {
    "creation_time": 42,
    "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "key_label": "String",
    "key_name_types": {
      "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
    },
    "name": "String",
    "number_of_elements": 42,
    "time_to_live": "String",
    "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  }
]
```

## POST /reference\_data/tables

Create a new reference table.

Table 299. POST /reference\_data/tables resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 300. POST /reference\_data/tables request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference table to create

Table 300. *POST /reference\_data/tables request parameter details (continued).*

Parameter	Type	Optionality	Data Type	MIME Type	Description
element_type	QUERY	Required	String	text/plain	Required. The default element type for the values allowed in the reference table. This is used when values are added or updated in the reference table who's inner key was not defined in the key_name_types parameter. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
outer_key_label	QUERY	Optional	String	text/plain	Optional. The label to describe the outer keys
timeout_type	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the time_to_live interval is based on when the data was first seen or last seen. "
time_to_live	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"
key_name_types	QUERY	Optional	JSON	application/json	Optional. A JSON formatted string. This array creates the inner key names and corresponding value types for the table

Table 301. *POST /reference\_data/tables response codes.*

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference table.

## Response Description

Information about the newly created reference table.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "key_name_types": {
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  },
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## GET /reference\_data/tables/{name}

Return the reference table identified by the **name** parameter.

If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 302. GET /reference\_data/tables/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 303. GET /reference\_data/tables/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to retrieve
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference table. The default value is 0.

Table 304. GET /reference\_data/tables/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table has been retrieved.
404	1002	The reference table does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference table.

## Response Description

The reference table identified by the name specified in the request. The portion of the reference table's data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "creation_time": 42,
  "data": {
    "String1": {
      "String1": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      "String2": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      "String3": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      }
    },
    "String2": {
      "String1": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      "String2": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      "String3": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      }
    }
  }
}
```

```

    },
    "String3": {
      "String1": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      "String2": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      },
      "String3": {
        "first_seen": 42,
        "last_seen": 42,
        "source": "String",
        "value": "String"
      }
    }
  },
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "key_name_types": {
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  },
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}

```

## POST /reference\_data/tables/{name}

Add or update an element in a reference table.

The value that you add must be of the appropriate type: either the type that corresponds to the innerKey predefined for the reference table, or the default elementType of the reference table

Table 305. POST /reference\_data/tables/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 306. POST /reference\_data/tables/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to add or update an element in
outer_key	QUERY	Required	String	text/plain	Required. The outer key for the element to add or update
inner_key	QUERY	Required	String	text/plain	Required. The inner key for the element to add or update

Table 306. *POST /reference\_data/tables/{name}* request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference table. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is 'reference data api'

Table 307. *POST /reference\_data/tables/{name}* response codes.

HTTP Response Code	Unique Code	Description
200		The reference table has had an element added or updated.
404	1002	The reference table does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference table.

## Response Description

Information about the reference table that had an element added or updated. This returns information about the reference table but not the contained data.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "key_name_types": {
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  },
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## DELETE /reference\_data/tables/{name}

Remove a reference table or purge its contents.

Table 308. *DELETE /reference\_data/tables/{name}* resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 309. DELETE /reference\_data/tables/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to remove or purge
purge_only	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference table should have its contents purged (true), keeping the reference table structure. If the value is "false" or not specified the reference table will be removed completely.

Table 310. DELETE /reference\_data/tables/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table has had its contents purged.
204		The reference table has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference table does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference table.

## Response Description

If the table was removed nothing is returned, otherwise information about the reference table that had its contents purged is returned.

## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "key_name_types": {
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  },
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## DELETE /reference\_data/tables/{name}/{outer\_key}/{inner\_key}

Remove a value from a reference table.

Table 311. DELETE /reference\_data/tables/{name}/{outer\_key}/{inner\_key} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 312. DELETE /reference\_data/tables/{name}/{outer\_key}/{inner\_key} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to remove a value from
outer_key	PATH	Required	String	text/plain	Required. The outer key of the value to remove
inner_key	PATH	Required	String	text/plain	Required. The inner key of the value to remove
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference table. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 313. DELETE /reference\_data/tables/{name}/{outer\_key}/{inner\_key} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table had had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference table does not exist.
404	1003	The record does not exist in the reference table.
500	1020	An error occurred while attempting to remove the reference table value.

## Response Description

Information about the reference table that had an element removed. This returns information about table but not the contained data.



## Response Sample

```
{
  "creation_time": 42,
  "element_type": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "key_label": "String",
  "key_name_types": {
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  },
  "name": "String",
  "number_of_elements": 42,
  "time_to_live": "String",
  "timeout_type": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
}
```

## Scanner endpoints

Use the references for REST API V0.1 scanner endpoints.

### GET /scanner/profiles

Retrieves all of the currently created scan profiles.

No parameters are required and the following information should be retrieved for each scan profile:

- scanProfileId
- scanProfileName
- description
- scanType
- scannerName

Table 314. GET /scanner/profiles resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 315. GET /scanner/profiles response codes.

HTTP Response Code	Unique Code	Description
200		The list of scan profiles was successfully returned.
500	1030	Occurs when an attempt is made to list scan profiles when certain conditions are not met, or when too many scan requests have been made.

## Response Description

The list of scan profiles currently configured in QRadar Vulnerability Manager.

## Response Sample

### POST /scanner/profiles/create

Initiates a request to create a new scanProfile.

The request takes one parameter - createScanRequest, which is just a POJO. To create the scan, you will need to build up a JSON object that contains the Scan Profile name and hosts to scan, for example, {'name': 'New Scan Profile', 'ips': ['10.100.85.135']}

Table 316. POST /scanner/profiles/create resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 317. POST /scanner/profiles/create request body details.

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	JSON	application/json		

Table 318. POST /scanner/profiles/create response codes.

HTTP Response Code	Unique Code	Description
200		The scan has been successfully created.
419	9101	Occurs when a parameter is missing or invalid.
500	1030	Occurs when an attempt is made to create a scan when certain conditions are not met, or when too many scan requests have been made.

## Response Description

An indicator of whether the scan has been created successfully or not.

## Response Sample

String

## POST /scanner/profiles/start

Initiates a request to start an already created scanProfile.

The request takes one parameter: the **scanProfileId** parameter. To get a list of scanProfileIds, get a list of the current scan profiles by initiating a profiles request on the scanner endpoint. The **scanProfileId** parameter is validated and an appropriate message is returned.

Table 319. POST /scanner/profiles/start resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 320. POST /scanner/profiles/start request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
scanProfileId	QUERY	Required	String	text/plain	The unique id of the scan profile we want to start,

Table 321. *POST /scanner/profiles/start response codes.*

HTTP Response Code	Unique Code	Description
200		The scan has been successfully started,
403	1000	Occurs if the user does not have permission to start a scan, or the scan is in progress,
500	1030	Occurs when an attempt is made to start a scan when certain conditions are not met, or when too many scan requests have been made.

## Response Description

An indicator of whether the scan has been started successfully or not.

## Response Sample

String

## GET /scanner/scanprofiles

Retrieves all of the currently created scan profiles.

No parameters are required and the following information should be retrieved for each scan profile:

- profileId
- scanProfileName
- description
- scanType
- scannerName
- schedule
- status
- progress
- lastRunTime
- duration

Table 322. *GET /scanner/scanprofiles resource details.*

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 323. *GET /scanner/scanprofiles response codes.*

HTTP Response Code	Unique Code	Description
200		The list of scan profiles was successfully returned.

Table 323. GET /scanner/scanprofiles response codes (continued).

HTTP Response Code	Unique Code	Description
500	1030	Occurs when an attempt is made to list scan profiles when certain conditions are not met, or when too many scan requests have been made.

## Response Description

The list of scan profiles currently configured in QRadar Vulnerability Manager.

## Response Sample

```
[
  {
    "description": "String",
    "duration": {
      "days": 42,
      "hours": 42,
      "minutes": 42,
      "months": 42,
      "seconds": 42.5,
      "type": "String",
      "value": "String",
      "years": 42
    },
    "endTime": {
      "date": 42,
      "day": 42,
      "hours": 42,
      "minutes": 42,
      "month": 42,
      "seconds": 42,
      "time": 42,
      "timezoneOffset": 42,
      "year": 42
    },
    "progress": 42,
    "scanProfileId": 42,
    "scanProfileName": "String",
    "scanType": "String",
    "scannerName": "String",
    "schedule": "String",
    "status": "String"
  }
]
```

## POST /scanner/scanprofiles

Initiates a request to create a new scanProfile.

The request takes one parameter - createScanRequest, which is just a POJO. To create the scan, you will need to build up a JSON object that contains the Scan Profile name and hosts to scan, for example, {'name':'New Scan Profile', 'ips':['10.100.85.135']}

Table 324. POST /scanner/scanprofiles resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 325. POST /scanner/scanprofiles request body details.

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	JSON	application/json		{ "description": "String", "hosts": [ "String", "String", "String" ], "name": "String" }

Table 326. POST /scanner/scanprofiles response codes.

HTTP Response Code	Unique Code	Description
204		The scan has been successfully created.
500	1030	Occurs when an attempt is made to create a scan when certain conditions are not met, or when too many scan requests have been made.

## Response Description

An indicator of whether the scan has been created successfully or not.

## Response Sample

String

## GET /scanner/scanprofiles/{profileid}

Retrieves a scan profile for a given Scan Profile ID.

The only parameter required is the Scan Profile ID. The following information about a scan profile will be returned:

- profileId
- scanProfileName
- description
- scanType
- scannerName
- scannerName
- schedule
- status
- progress
- lastRunTime
- duration

Table 327. GET /scanner/scanprofiles/{profileid} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 328. GET /scanner/scanprofiles/{profileid} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	The unique id of the scan profile we need to retrieve information for.

Table 329. GET /scanner/scanprofiles/{profileid} response codes.

HTTP Response Code	Unique Code	Description
200		The scan profile was successfully returned.
500	1030	Occurs when an attempt is made to list a scan profile when certain conditions are not met, or when too many scan requests have been made.

## Response Description

The list of scan profiles currently configured in QRadar Vulnerability Manager.

## Response Sample

```
[
  {
    "description": "String",
    "duration": {
      "days": 42,
      "hours": 42,
      "minutes": 42,
      "months": 42,
      "seconds": 42.5,
      "type": "String",
      "value": "String",
      "years": 42
    },
    "endTime": {
      "date": 42,
      "day": 42,
      "hours": 42,
      "minutes": 42,
      "month": 42,
      "seconds": 42,
      "time": 42,
      "timezoneOffset": 42,
      "year": 42
    },
    "progress": 42,
    "scanProfileId": 42,
    "scanProfileName": "String",
    "scanType": "String",
    "scannerName": "String",
    "schedule": "String",
    "status": "String"
  }
]
```

## POST /scanner/scanprofiles/{profileid}

Update a scan profile.

The following information on a scan profile can be updated:

- scanProfileName
- description
- ips

Table 330. POST /scanner/scanprofiles/{profileid} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 331. POST /scanner/scanprofiles/{profileid} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	The unique id of the scan profile used to update,

Table 332. POST /scanner/scanprofiles/{profileid} request body details.

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	JSON	application/json		

Table 333. POST /scanner/scanprofiles/{profileid} response codes.

HTTP Response Code	Unique Code	Description
202		The scan profile was successfully updated.
500	1030	Occurs when an attempt is made to update a scan profile when certain conditions are not met, or when too many scan requests have been made.

## Response Description

A message to indicate whether the scan profile has updated or not.

## Response Sample

## DELETE /scanner/scanprofiles/{profileid}

Initiates a request to delete a scanProfile.

Table 334. DELETE /scanner/scanprofiles/{profileid} resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 335. DELETE /scanner/scanprofiles/{profileid} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	

Table 336. DELETE /scanner/scanprofiles/{profileid} response codes.

HTTP Response Code	Unique Code	Description
204		The scan has been successfully deleted.
500	1030	Occurs when an attempt is made to delete a scan when certain conditions are not met, or when too many scan requests have been made.

## Response Description

An indicator of whether the scan has been deleted successfully or not.

## Response Sample

String

## POST /scanner/scanprofiles/{profileid}/start

Initiates a request to start an already created scanProfile.

To get a list of scanProfileIds, get a list of the current scan profiles by initiating a profiles request on the scanner endpoint. The scanProfileId will be validated and an appropriate message returned.

Table 337. POST /scanner/scanprofiles/{profileid}/start resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 338. POST /scanner/scanprofiles/{profileid}/start request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	The unique id of the scan profile we want to start.

Table 339. POST /scanner/scanprofiles/{profileid}/start request body details.

Parameter	Data Type	MIME Type	Description	Sample
ips	JSON	application/json		

Table 340. POST /scanner/scanprofiles/{profileid}/start request body details.

Parameter	Data Type	MIME Type	Description	Sample
ips	JSON	application/json		

## Response Description

An indicator of whether the scan has been started successfully or not.



## Response Sample

String

## Offense endpoints

Use the references for REST API V2 Offense endpoints.

### GET /siem/offenses

Retrieve a list of offenses currently in the system.

Table 341. GET /siem/offenses resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 342. GET /siem/offenses request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.
offset	QUERY	Optional	Number	text/plain	Optional. This parameter indicates to retrieve offenses that start from the offset value rather than from the beginning of the offenses. The default value is 0.

Table 343. GET /siem/offenses response codes.

HTTP Response Code	Unique Code	Description
200		The offense list was retrieved.
422	1005	A request parameter is not valid.
500	1020	An error occurred while the offense list was being retrieved.

## Response Description

An array of offense objects. An offense object contains the following fields:

Field	Format	Description
id	Number	The ID of the offense.
description	String	The description of the offense.
assigned_to	String	The user the offense is assigned to.

Field	Format	Description
categories	Array of strings	Event categories that are associated with the offense.
category_count	Number	The number of event categories that are associated with the offense.
policy_category_count	Number	The number of policy event categories that are associated with the offense.
security_category_count	Number	The number of security event categories that are associated with the offense.
close_time	Number	The number of milliseconds since epoch when the offense was closed.
close_user	String	The user that closed the offense.
closing_reason	String	The reason the offense was closed.
credibility	Number	The credibility of the offense.
relevance	Number	The relevance of the offense.
severity	Number	The severity of the offense.
magnitude	Number	The magnitude of the offense.
destination_networks	Array of strings	The destination networks that are associated with the offense.
source_network	String	The source network that is associated with the offense.
device_count	Number	The number of devices that are associated with the offense.
event_count	Number	The number of events that are associated with the offense.
flow_count	Number	The number of flows that are associated with the offense.
inactive	Boolean	True if the offense is inactive.
last_updated_time	Number	The number of milliseconds since epoch when the offense was last updated.
local_destination_count	Number	The number of local destinations that are associated with the offense.
offense_source	String	The source of the offense.
offense_type	Number	A number that represents the offense type.
protected	Boolean	True if the offense is protected.

Field	Format	Description
remote_destination_count	Number	The number of remote destinations that are associated with the offense.
source_count	Number	The number of sources that are associated with the offense.
start_time	Number	The number of milliseconds since epoch when the offense was started.
status	String	The status of the offense. One of "OPEN", "HIDDEN", or "CLOSED".
username_count	Number	The number of user names that are associated with the offense.

The following table identifies offense type codes:

Code	Offense Type
0	Source IP
1	Destination IP
2	Event Name
3	User name
4	Source MAC Address
5	Destination MAC Address
6	Log Source
7	Hostname
8	Source Port
9	Destination Port
10	Source IPv6
11	Destination IPv6
12	Source ASN
13	Destination ASN
14	Rule
15	App Id
18	Scheduled Search

## Response Sample

```
[
  {
    "assigned_to": "String",
    "categories": [
      "String",
      "String",
      "String"
    ],
    "category_count": 42,
    "close_time": 42,
```

```

    "close_user": "String",
    "closing_reason": "String",
    "credibility": 42,
    "description": "String",
    "destination_networks": [
        "String",
        "String",
        "String"
    ],
    "device_count": 42,
    "event_count": 42,
    "flow_count": 42,
    "id": 42,
    "inactive": true,
    "last_updated_time": 42,
    "local_destination_count": 42,
    "magnitude": 42,
    "offense_source": "String",
    "offense_type": 42,
    "policy_category_count": 42,
    "protected": true,
    "relevance": 42,
    "remote_destination_count": 42,
    "security_category_count": 42,
    "severity": 42,
    "source_count": 42,
    "source_network": "String",
    "start_time": 42,
    "status": "String",
    "username_count": 42
}
}]

```

---

## REST API V1.0 References

Each API reference provides information about the parameters, mime type, stability, and responses for each endpoint.

### Authentication endpoints

Use the references for REST API V1.0 authentication endpoints.

#### POST /auth/logout

Invoke this method as an authorized user and your session will be invalidated.

*Table 344. POST /auth/logout resource details.*

Stability	MIME Type
EXPERIMENTAL	text/plain

There are no parameters for this endpoint.

#### Response Description

Returns true. Throws exception upon failure.

#### Response Sample

```
true
```

### Help endpoints

Use the references for REST API V1.0 help endpoints.

## GET /help/capabilities

List all QRadar API capabilities.

List the QRadar API capabilities. The response will contain all available RESTful resources. We allow every authenticated user to access this method, but restrict the output based on their user capabilities.

Table 345. GET /help/capabilities resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 346. GET /help/capabilities request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
categories	QUERY	Optional	JSON	application/json	Restrict your search to this list of capabilities.
paths	QUERY	Optional	JSON	application/json	Restrict your search to these paths only.
httpMethods	QUERY	Optional	JSON	application/json	Restrict your search to these HTTP methods.
version	QUERY	Optional	JSON	text/plain	Restrict your search to this version (or below).
showExperimental	QUERY	Optional	Boolean	text/plain	If true, we include experimental endpoints (default is true).

Table 347. GET /help/capabilities response codes.

HTTP Response Code	Unique Code	Description
422	1001	Invalid input
422	1002	Our internal mapping has an unexpected structure or contains an invalid element value.
500	1003	A generic error has occurred while retrieving our capabilities.

## Response Sample

```
{
  "categories": [
    {
      "apis": [
        {
          "httpMethod": "String &lt;one of: OPTIONS, GET, HEAD, POST, PUT, DELETE, TRACE, CONNECT, PATCH>",
          "operations": [
            {
              "additionalFiltering": true,
              "deprecated": true,
              "description": "String",
              "errorResponses": [
                {
                  "code": 42,
                  "description": "String",
                  "uniqueCode": 42
                }
              ],
              "httpMethod": "String",
              "lastSupportedVersion": 42.5,
              "parameters": [
            {
```

```

        "allowMultiple": true,
        "description": "String",
        "name": "String",
        "pathIndex": 42,
        "required": true,
        "source": "String",
        "supportedContentTypes": [
            {
                "dataType": "String",
                "mimeType": "String",
                "sample": "String"
            }
        ]
    },
    ],
    "removalTarget": 42.5,
    "removed": true,
    "responseClass": "String",
    "responseDescription": {
        "description": "String",
        "properties": [
            {
                "description": "String",
                "name": "String"
            }
        ]
    },
    ],
    "successResponses": [
        {
            "code": 42,
            "description": "String"
        }
    ],
    "summary": "String",
    "supportedContentTypes": [
        {
            "dataType": "String",
            "mimeType": "String",
            "sample": "String"
        }
    ],
    "version": 42.5,
    "visibility": "String"
},
],
    "path": "String"
},
    ],
    "path": "String"
},
    ],
    "path": "String"
}

```

## QRadar Vulnerability Manager endpoints

Use the references for REST API V1 QRadar Vulnerability Manager endpoints.

## GET /qvm/assets

List the assets with discovered vulnerabilities present in the asset model. The response contains all available RESTful resources.

Table 348. GET /qvm/assets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 349. GET /qvm/assets request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	ID of saved search

Table 349. GET /qvm/assets request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter

Table 350. GET /qvm/assets response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve vulnerabilities by asset completed successfully.
420	9101	Invalid search parameters, search cannot be performed.

## Response Description

list of assets data

## Response Sample

### GET /qvm/filters

List of the allowable query filters.

Get a list of the allowable filters that can be used or applied against the following queries:

- /qvm/assets
- /qvm/vulns
- /qvm/vulninstances
- /qvm/openservices
- /qvm/networks

Table 351. GET /qvm/filters resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 352. GET /qvm/filters response codes.

HTTP Response Code	Unique Code	Description
200		The search executed successfully.
420	9102	An error occurred while executing the search.

## Response Description

List of Filters.

## Response Sample

### GET /qvm/network

List the networks present in the asset model with vulnerabilities present. The response contains all available RESTful resources.

Table 353. GET /qvm/network resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 354. GET /qvm/network request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	ID of saved search
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

Table 355. GET /qvm/network response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve vulnerabilities by network completed successfully.
420	9101	Invalid search parameters, search cannot be performed.

## Response Description

List of network related data.

## Response Sample

### GET /qvm/openservices

List the open services present in the asset model with vulnerabilities present. The response contains all available RESTful resources.

Table 356. GET /qvm/openservices resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 357. GET /qvm/openservices request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	ID of saved search



Table 357. GET /qvm/openservices request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

Table 358. GET /qvm/openservices response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve vulnerabilities by open service completed successfully.
420	9101	Invalid search parameters, search cannot be performed.

## Response Description

List of open services related data.

## Response Sample

### GET /qvm/savedsearches

Get a list of saved searches.

Get a list of saved searches that can be used or applied against the following queries:

- /qvm/assets
- /qvm/vulns
- /qvm/vulninstances
- /qvm/openservices
- /qvm/networks

Table 359. GET /qvm/savedsearches resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 360. GET /qvm/savedsearches response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve the list of saved searches completed successfully.
420	9103	An error occurred while trying to retrieve the list of saved searches.

## Response Description

List of saved searches.

## Response Sample

### POST /qvm/tickets/assign

Update the remediation ticket for the assigned vulnerability.

Table 361. POST /qvm/tickets/assign resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 362. POST /qvm/tickets/assign request body details.

Parameter	Data Type	MIME Type	Description	Sample
ticket	JSON	application/json		

Table 363. POST /qvm/tickets/assign response codes.

HTTP Response Code	Unique Code	Description
200		The request to assign a ticket completed successfully.
420	9104	An error occurred while trying to assign a ticket due to invalid arguments.

## Response Description

Success message if update succeed.

## Response Sample

### GET /qvm/vulninstances

List the Vulnerability Instances present in the asset model. The response contains all available RESTful resources.

Table 364. GET /qvm/vulninstances resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 365. GET /qvm/vulninstances request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	ID of saved search
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

Table 366. GET /qvm/vulninstances response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve vulnerabilities by instance completed successfully.
420	9101	Invalid search parameters, search cannot be performed.

## Response Description

List of vulnerability instance data.

## Response Sample

### GET /qvm/vulns

List the Vulnerabilities present in the asset model. The response contains all available RESTful resources.

Table 367. GET /qvm/vulns resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 368. GET /qvm/vulns request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
savedSearchId	QUERY	Optional	String	text/plain	ID of saved search
savedSearchName	QUERY	Optional	String	text/plain	Saved search name
filters	QUERY	Optional	JSON	application/json	List of JSON objects for application of bespoke query search dataset filter.

Table 369. GET /qvm/vulns response codes.

HTTP Response Code	Unique Code	Description
200		The request to retrieve vulnerabilities completed successfully.
420	9101	Invalid search parameters, search cannot be performed.

## Response Description

List of vulnerability data.

## Response Sample

## Reference Data endpoints

Use the references for REST API V0.1 reference data endpoints.

## GET /referencedata/mapOfSets

Retrieve a list of all reference map of sets.

Table 370. GET /referencedata/mapOfSets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 371. GET /referencedata/mapOfSets response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets list were retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference map of sets.

## Response Description

A list of all of the reference map of sets. This returns information about the map of sets but not the contained data.

## Response Sample

```
[
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398377702319,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398377702319,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398377702319,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  }
]
```

## POST /referencedata/mapOfSets

Create a new reference map of sets.

Table 372. POST /referencedata/mapOfSets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 373. POST /referencedata/mapOfSets request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference map of sets to create
elementType	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference map of sets. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
keyLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the keys
valueLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the data values
timeoutType	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the timeToLive interval is based on when the data was first seen or last seen.
timeToLive	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"

Table 374. POST /referencedata/mapOfSets response codes.

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created.
422	1005	A request parameter is not valid.

Table 374. *POST /referencedata/mapOfSets response codes (continued).*

HTTP Response Code	Unique Code	Description
409	1004	The reference map of sets could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference map of sets.

## Response Description

Information about the newly created reference map of sets.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 0
}
```

## GET /referencedata/mapOfSets/{name}

Return the reference map of sets identified by the **name** parameter. If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 375. *GET /referencedata/mapOfSets/{name} resource details.*

Stability	MIME Type
EXPERIMENTAL	application/json

Table 376. *GET /referencedata/mapOfSets/{name} request parameter details.*

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to retrieve.
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.

Table 376. GET /referencedata/mapOfSets/{name} request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference map of sets. The default value is 0.

Table 377. GET /referencedata/mapOfSets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets has been retrieved.
404	1002	The reference map of sets does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference map of sets.

## Response Description

The reference map of sets identified by the name specified in the request. The portion of the reference map of sets' data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 9,
  "data": {
    "String1": [
      {
        "value": "String",
        "source": "String",
        "firstSeen": 1398377702319,
        "lastSeen": 1398377702319
      },
      {
        "value": "String",
        "source": "String",
        "firstSeen": 1398377702319,
        "lastSeen": 1398377702319
      },
      {
        "value": "String",
```

```

        "source": "String",
        "firstSeen": 1398377702319,
        "lastSeen": 1398377702319
    },
    "String2": [
        {
            "value": "String",
            "source": "String",
            "firstSeen": 1398377702319,
            "lastSeen": 1398377702319
        },
        {
            "value": "String",
            "source": "String",
            "firstSeen": 1398377702319,
            "lastSeen": 1398377702319
        },
        {
            "value": "String",
            "source": "String",
            "firstSeen": 1398377702319,
            "lastSeen": 1398377702319
        }
    ],
    "String3": [
        {
            "value": "String",
            "source": "String",
            "firstSeen": 1398377702319,
            "lastSeen": 1398377702319
        },
        {
            "value": "String",
            "source": "String",
            "firstSeen": 1398377702319,
            "lastSeen": 1398377702319
        },
        {
            "value": "String",
            "source": "String",
            "firstSeen": 1398377702319,
            "lastSeen": 1398377702319
        }
    ]
}

```

## POST /referencedata/mapOfSets/{name}

Add or update an element in a reference map of sets.

Table 378. POST /referencedata/mapOfSets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json



Table 379. POST /referencedata/mapOfSets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to add or update an element in
key	QUERY	Required	String	text/plain	Required. The key of the set to add or update
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference map of sets. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. This indicates where the data originated. The default value is 'reference data api'

Table 380. POST /referencedata/mapOfSets response codes.

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference map of sets could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference map of sets.

## Response Description

Information about the reference map of sets that has had an element added or updated. This returns information about the reference map of sets but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
```

```

    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 5
}

```

## DELETE /referencedata/mapOfSets/{name}

Remove a map of sets or purge its contents.

Table 381. DELETE /referencedata/mapOfSets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 382. DELETE /referencedata/mapOfSets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to remove or purge.
purgeOnly	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference map of sets should have its contents purged (true), keeping the reference map of sets structure. If the value is "false" or not specified, the reference map of sets will be removed completely.

Table 383. DELETE /referencedata/mapOfSets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had its contents purged.
204		The reference map has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference map of sets does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference map of sets.

## Response Description

If the reference map of sets was removed nothing is returned, otherwise information about the reference map of sets that had its contents purged is returned.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 0
}
```

## DELETE /referencedata/mapOfSets/{name}/{key}

Remove a value from a reference map of sets.

Table 384. DELETE /referencedata/mapOfSets/{name}/{key} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 385. DELETE /referencedata/mapOfSets/{name}/{key} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to remove a value from.
key	PATH	Required	String	text/plain	Required. The key of the value to remove.
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference map of sets. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 386. DELETE /referencedata/mapOfSets/{name}/{key} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets has had a value removed
422	1005	A request parameter is not valid.
404	1002	The reference map of sets does not exist.

Table 386. DELETE /referencedata/mapOfSets/{name}/{key} response codes (continued).

HTTP Response Code	Unique Code	Description
404	1003	The record does not exist in the reference map of sets.
500	1020	An error occurred while attempting to remove the reference map of sets value.

## Response Description

Information about the reference map of sets that had a value removed. This returns information about the reference map of sets but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 5
}
```

## GET /referencedata/maps

Retrieve a list of all reference maps.

Table 387. GET /referencedata/maps resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 388. GET /referencedata/maps response codes.

HTTP Response Code	Unique Code	Description
200		The reference map list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference maps.

## Response Description

A list of all of the reference maps. This returns information about the maps but not the contained data.

## Response Sample

```
[
  {
    "name": "String",
```

```

    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398265631810,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398265631810,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398265631810,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  }
]

```

## POST /referencedata/maps

Create a new reference map.

Table 389. POST /referencedata/maps resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 390. POST /referencedata/maps request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference map to create
keyLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the keys
valueLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the data values
elementType	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference map. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
timeoutType	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the timeToLive interval is based on when the data was first seen or last seen.

Table 390. *POST /referencedata/maps request parameter details (continued).*

Parameter	Type	Optionality	Data Type	MIME Type	Description
timeToLive	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"

Table 391. *POST /referencedata/maps response codes.*

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created.
422	1005	parameters were invalid.
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference map.

## Response Description

Information about the newly created reference map.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398265631810,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "key1Label": "String",
  "valueLabel": "String",
  "numberOfElements": 0
}
```

## GET /referencedata/maps/{name}

Retrieve the reference map identified by the **name** parameter. If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 392. *GET /referencedata/maps/{name} resource details.*

Stability	MIME Type
EXPERIMENTAL	application/json

Table 393. *GET /referencedata/maps/{name} request parameter details.*

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to retrieve

Table 393. GET /referencedata/maps/{name} request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference map. The default value is 0.

Table 394. GET /referencedata/maps/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has been retrieved.
404	1002	The reference map does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference map.

## Response Description

The reference map identified by the name specified in the request. The portion of the reference map's data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1396355660000,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 3,
  "data": {
    "String": {
      "value": "String",
      "source": "String",
      "firstSeen": 1396355660001,
      "lastSeen": 1396355660001
    },
    "String": {
      "value": "String",
      "source": "String",
      "firstSeen": 1396355660001,
      "lastSeen": 1396355660001
    }
  }
}
```

```

    },
    "String": {
      "value": "String",
      "source": "String",
      "firstSeen": 1396355660001,
      "lastSeen": 1396355660001
    }
  }
}

```

## POST /referencedata/maps/{name}

Add or update an element in a reference map.

Table 395. POST /referencedata/maps/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 396. POST /referencedata/maps/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to add or update an element in
key	QUERY	Required	String	text/plain	Required. The key who's value we want to add or update
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference map. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is 'reference data api'

Table 397. POST /referencedata/maps/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had an element added or updated.
404	1002	The reference map does not exist.
422	1005	A request parameter is not valid.



Table 397. *POST /referencedata/maps/{name}* response codes (continued).

HTTP Response Code	Unique Code	Description
500	1020	An error occurred while attempting to add or update data in the reference map.

## Response Description

Information about the reference map that had an element added or updated. This returns information about reference map but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398265631810,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 5
}
```

## DELETE /referencedata/maps/{name}

Remove a reference map or purge its contents.

Table 398. *DELETE /referencedata/maps/{name}* resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 399. *DELETE /referencedata/maps/{name}* request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to remove or purge
purgeOnly	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference map should have its contents purged (true), keeping the reference map structure. If the value is "false" or not specified the reference map will be removed completely.

Table 400. DELETE /referencedata/maps/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had its contents purged.
204		The reference map has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference map does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference map.

## Response Description

If the reference map was removed nothing is returned, otherwise information about the reference map that had its contents purged is returned.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398265631810,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 0
}
```

## DELETE /referencedata/maps/{name}/{key}

Remove a value from a reference map.

Table 401. DELETE /referencedata/maps/{name}/{key} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 402. DELETE /referencedata/maps/{name}/{key} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to remove a value from
key	PATH	Required	String	text/plain	Required. The key of the value to remove

Table 402. DELETE /referencedata/maps/{name}/{key} request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference map. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 403. DELETE /referencedata/maps/{name}/{key} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference map does not exist.
404	1003	The record does not exist in the reference map.
500	1020	An error occurred while attempting to remove the value from the reference map.

## Response Description

Information about the reference map that had an element removed. This returns information about map but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398265631810,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 5
}
```

## GET /referencedata/sets

Retrieve a list of all reference sets.

Table 404. GET /referencedata/sets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 405. GET /referencedata/sets response codes.

HTTP Response Code	Unique Code	Description
200		The reference set list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference sets.

## Response Description

A list of all of the reference sets. This returns information about the sets but not the contained data.

## Response Sample

```
[
  {
    "creationTime": 42,
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "name": "String",
    "numberOfElements": 42,
    "timeToLive": "String",
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  },
  {
    "creationTime": 42,
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "name": "String",
    "numberOfElements": 42,
    "timeToLive": "String",
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  },
  {
    "creationTime": 42,
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "name": "String",
    "numberOfElements": 42,
    "timeToLive": "String",
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  }
]
```

## POST /referencedata/sets

Create a new reference set.

Table 406. POST /referencedata/sets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 407. POST /referencedata/sets request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference set being created

Table 407. POST /referencedata/sets request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
elementType	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference set. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
timeoutType	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the timeToLive interval is based on when the data was first seen or last seen.
timeToLive	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"

Table 408. POST /referencedata/sets response codes.

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference set.

## Response Description

Information about the newly created reference set.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 139877706999,
```

```

    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "numberOfElements": 0
}

```

## POST /referencedata/sets/bulkLoad/{name}

Add or update data in a reference set.

Table 409. POST /referencedata/sets/bulkLoad/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 410. POST /referencedata/sets/bulkLoad/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of set to add or update data in

Table 411. POST /referencedata/sets/bulkLoad/{name} request body details.

Parameter	Data Type	MIME Type	Description	Sample
data	JSON	application/json	Required - The JSON formatted data to add or update in the reference set	["String", "String", "String", "String", "String", "String", "String", "String", "String", "String"]

Table 412. POST /referencedata/sets/bulkLoad/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had data added or updated.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference set.
400	1001	An error occurred parsing the JSON formatted message body.

## Response Description

Information about the reference set that had data added or updated. This returns information about the reference set but not the contained data.

## Response Sample

```

{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 139877706999,

```

```

"timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
"timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
"numberOfElements": 0
}

```

## GET /referencedata/sets/{name}

Retrieve the reference set identified by the **name** parameter. If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 413. GET /referencedata/sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 414. GET /referencedata/sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to retrieve.
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference set. The default value is 0.

Table 415. GET /referencedata/sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has been retrieved.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference set.

## Response Description

The reference set identified by the name specified in the request. The portion of the set's data returned is dependent on the limit and offset specified in the request.

### Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398277745579,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 3,
  "data": [
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398277745579,
      "lastSeen": 1398277745579
    },
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398277745579,
      "lastSeen": 1398277745579
    },
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398277745579,
      "lastSeen": 1398277745579
    }
  ]
}
```

### POST /referencedata/sets/{name}

Add or update an element in a reference set.

Table 416. POST /referencedata/sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 417. POST /referencedata/sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to add or update an element in
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference set. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is 'reference data api'



Table 418. *POST /referencedata/sets/{name}* response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had an element added or updated.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update an element in the reference set.

## Response Description

Information about the reference set that had an element added or updated. This returns information about the reference set but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398777706999,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 5
}
```

## DELETE /referencedata/sets/{name}

Remove a reference set or purge its contents.

Table 419. *DELETE /referencedata/sets/{name}* resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 420. *DELETE /referencedata/sets/{name}* request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the set to remove or purge

Table 420. DELETE /referencedata/sets/{name} request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
purgeOnly	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference set should have its contents purged (true), keeping the reference set structure. If the value is "false" or not specified the reference set will be removed completely.

Table 421. DELETE /referencedata/sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had its contents purged.
204		The reference set has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference set does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference set.

## Response Description

If the reference set was removed nothing is returned, otherwise information about the reference set that had its contents purged is returned.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398777706999,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 0
}
```

## DELETE /referencedata/sets/{name}/{value}

Remove a value from a reference set.

Table 422. DELETE /referencedata/sets/{name}/{value} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 423. DELETE /referencedata/sets/{name}/{value} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to remove a value from
value	PATH	Required	String	text/plain	Required. The value to remove from the reference set. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 424. DELETE /referencedata/sets/{name}/{value} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference set does not exist.
404	1003	The record does not exist in the reference set.
500	1020	An error occurred while attempting to remove the value from the reference set.

## Response Description

Information about the reference set that had an value removed. This returns information about the reference set but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398777706999,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 5
}
```

## GET /referencedata/tables

Retrieve a list of all reference tables.

Table 425. GET /referencedata/tables resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 426. GET /referencedata/tables response codes.

HTTP Response Code	Unique Code	Description
200		The reference table list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference tables.

## Response Description

A list of all of the reference tables. This returns information about the tables but not the contained data.

## Response Sample

```
[
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1397773789254,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "numberOfElements": 42,
    "keyNameTypes": {
      "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
    }
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1397773789254,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "numberOfElements": 42,
    "keyNameTypes": {
      "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
    }
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1397773789254,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "numberOfElements": 42,
    "keyNameTypes": {
      "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
    }
  }
]
```

## POST /referencedata/tables

Create a new reference table.

Table 427. POST /referencedata/tables resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 428. POST /referencedata/tables request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference table to create
elementType	QUERY	Required	String	text/plain	Required. The default element type for the values allowed in the reference table. This is used when values are added or updated in the reference table who's inner key was not defined in the <b>keyNameTypes</b> parameter. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
outerKeyLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the outer keys
timeoutType	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the timeToLive interval is based on when the data was first seen or last seen. "
timeToLive	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"
keyNameTypes	QUERY	Optional	JSON	application/json	Optional. A JSON formatted string. This array creates the inner key names and corresponding value types for the table

Table 429. POST /referencedata/tables response codes.

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference table.

## Response Description

Information about the newly created reference table.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1397773789254,
```

```

"timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
"timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
"key1Label": "String",
"numberOfElements": 0,
"keyNameTypes": {
  "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
}
}

```

## GET /referencedata/tables/{name}

Return the reference table identified by the **name** parameter. If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 430. GET /referencedata/tables/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 431. GET /referencedata/tables/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to retrieve
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference table. The default value is 0.

Table 432. GET /referencedata/tables/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table has been retrieved.
404	1002	The reference table does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference table.

## Response Description

The reference table identified by the name specified in the request. The portion of the reference table's data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "name": "String",
  "elementType": "ALN",
  "createdTime": 1398888888888,
  "timeoutType": "LAST_SEEN",
  "timeToLive": "0 years 1 mons 0 days 0 hours 0 mins 0.00 secs",
  "key1Label": "String",
  "numberOfElements": 6,
  "keyNameTypes": {
    "String1": "ALN",
    "String2": "ALN",
    "String3": "ALN"
  },
  "data": {
    "String2": {
      "String1": {
        "value": "String",
        "source": "String",
        "firstSeen": 1398888888888,
        "lastSeen": 1398888888888
      }
    },
    "String3": {
      "String1": {
        "value": "String",
        "source": "String",
        "firstSeen": 1398888888888,
        "lastSeen": 1398888888888
      }
    },
    "String2": {
      "value": "String",
      "source": "String",
      "firstSeen": 1398888888888,
      "lastSeen": 1398888888888
    }
  },
  "String1": {
    "String1": {
      "value": "String",
      "source": "String",
      "firstSeen": 1398888888888,
      "lastSeen": 1398888888888
    },
    "String2": {
      "value": "String",
      "source": "String",
      "firstSeen": 1398888888888,
      "lastSeen": 1398888888888
    },
    "String3": {
      "value": "String",
      "source": "String",
      "firstSeen": 1398888888888,
      "lastSeen": 1398888888888
    }
  }
}
```

## POST /referencedata/tables/{name}

Add or update an element in a reference table. The value to be added must be of the appropriate type: either the type that corresponds to the innerKey predefined for the reference table, or the default elementType of the reference table.

Table 433. POST /referencedata/tables/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 434. POST /referencedata/tables/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to add or update an element in.
outerKey	QUERY	Required	String	text/plain	Required. The outer key for the element to add or update.
innerKey	QUERY	Required	String	text/plain	Required. The inner key for the element to add or update.
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference table. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is reference data api.

Table 435. POST /referencedata/tables/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table has had an element added or updated.
404	1002	The reference table does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference table.



## Response Description

Information about the reference table that had an element added or updated. This returns information about the reference table but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1397773789254,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "key1Label": "String",
  "numberOfElements": 5,
  "keyNameTypes": {
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  }
}
```

## DELETE /referencedata/tables/{name}

Remove a reference table or purge its contents.

Table 436. DELETE /referencedata/tables/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 437. DELETE /referencedata/tables/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to remove or purge
purgeOnly	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference table should have its contents purged (true), keeping the reference table structure. If the value is "false" or not specified the reference table will be removed completely.

Table 438. DELETE /referencedata/tables/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table has had its contents purged.
204		The reference table has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference table does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference table.

## Response Description

If the table was removed nothing is returned, otherwise information about the reference table that had its contents purged is returned.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1397773789254,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "key1Label": "String",
  "numberOfElements": 0,
  "keyNameTypes": {
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  }
}
```

## DELETE /referencedata/tables/{name}/{outerKey}/{innerKey}

Remove a value from a reference table.

Table 439. DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 440. DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to remove a value from
outerKey	PATH	Required	String	text/plain	Required. The outer key of the value to remove

Table 440. DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
innerKey	PATH	Required	String	text/plain	Required. The inner key of the value to remove
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference table. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 441. DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table had had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference table does not exist.
404	1003	The record does not exist in the reference table.
500	1020	An error occurred while attempting to remove the reference table value.

## Response Description

Information about the reference table that had an element removed. This returns information about table but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1397773789254,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "key1Label": "String",
  "numberOfElements": 5,
  "keyNameTypes": {
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  }
}
```

## Scanner endpoints

Use the references for REST API V0.1 scanner endpoints.

## GET /scanner/profiles

Retrieves all of the currently created scan profiles.

No parameters are required and the following information should be retrieved for each scan profile:

- scanProfileId
- scanProfileName
- description
- scanType
- scannerName

Table 442. GET /scanner/profiles resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 443. GET /scanner/profiles response codes.

HTTP Response Code	Unique Code	Description
200		The list of scan profiles was successfully returned.
500	1030	Occurs when an attempt is made to list scan profiles when certain conditions are not met, or when too many scan requests have been made.

## Response Description

The list of scan profiles currently configured in QRadar Vulnerability Manager.

## Response Sample

### POST /scanner/profiles/create

Initiates a request to create a new scanProfile.

The request takes one parameter - createScanRequest, which is just a POJO. To create the scan, you will need to build up a JSON object that contains the Scan Profile name and hosts to scan, for example, {'name':'New Scan Profile', 'ips':['10.100.85.135']}

Table 444. POST /scanner/profiles/create resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 445. POST /scanner/profiles/create request body details.

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	JSON	application/json		

Table 446. *POST /scanner/profiles/create response codes.*

HTTP Response Code	Unique Code	Description
200		The scan has been successfully created.
419	9101	Occurs when a parameter is missing or invalid.
500	1030	Occurs when an attempt is made to create a scan when certain conditions are not met, or when too many scan requests have been made.

## Response Description

An indicator of whether the scan has been created successfully or not.

## Response Sample

String

## POST /scanner/profiles/start

Initiates a request to start an already created scanProfile.

The request takes one parameter: the **scanProfileId** parameter. To get a list of scanProfileIds, get a list of the current scan profiles by initiating a profiles request on the scanner endpoint. The the **scanProfileId** parameter is validated and an appropriate message is returned.

Table 447. *POST /scanner/profiles/start resource details.*

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 448. *POST /scanner/profiles/start request parameter details.*

Parameter	Type	Optionality	Data Type	MIME Type	Description
scanProfileId	QUERY	Required	String	text/plain	The unique id of the scan profile we want to start,

Table 449. *POST /scanner/profiles/start response codes.*

HTTP Response Code	Unique Code	Description
200		The scan has been successfully started,
403	1000	Occurs if the user does not have permission to start a scan, or the scan is in progress,
500	1030	Occurs when an attempt is made to start a scan when certain conditions are not met, or when too many scan requests have been made.

### Response Description

An indicator of whether the scan has been started successfully or not.

### Response Sample

String

### GET /scanner/scanprofiles

Retrieves all of the currently created scan profiles.

No parameters are required and the following information should be retrieved for each scan profile:

- profileId
- scanProfileName
- description
- scanType
- scannerName
- schedule
- status
- progress
- lastRunTime
- duration

Table 450. GET /scanner/scanprofiles resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 451. GET /scanner/scanprofiles response codes.

HTTP Response Code	Unique Code	Description
200		The list of scan profiles was successfully returned.
500	1030	Occurs when an attempt is made to list scan profiles when certain conditions are not met, or when too many scan requests have been made.

### Response Description

The list of scan profiles currently configured in QRadar Vulnerability Manager.

### Response Sample

```
[
  {
    "description": "String",
    "duration": {
      "days": 42,
      "hours": 42,
      "minutes": 42,
      "months": 42,
```

```

        "seconds": 42.5,
        "type": "String",
        "value": "String",
        "years": 42
    },
    "endTime": {
        "date": 42,
        "day": 42,
        "hours": 42,
        "minutes": 42,
        "month": 42,
        "seconds": 42,
        "time": 42,
        "timezoneOffset": 42,
        "year": 42
    },
    "progress": 42,
    "scanProfileId": 42,
    "scanProfileName": "String",
    "scanType": "String",
    "scannerName": "String",
    "schedule": "String",
    "status": "String"
}
]

```

## POST /scanner/scanprofiles

Initiates a request to create a new scanProfile.

The request takes one parameter - createScanRequest, which is just a POJO. To create the scan, you will need to build up a JSON object that contains the Scan Profile name and hosts to scan, for example, {'name': 'New Scan Profile', 'ips': ['10.100.85.135']}

Table 452. POST /scanner/scanprofiles resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 453. POST /scanner/scanprofiles request body details.

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	JSON	application/json		{ "description": "String", "hosts": [ "String", "String", "String" ], "name": "String" }

Table 454. POST /scanner/scanprofiles response codes.

HTTP Response Code	Unique Code	Description
204		The scan has been successfully created.
500	1030	Occurs when an attempt is made to create a scan when certain conditions are not met, or when too many scan requests have been made.

## Response Description

An indicator of whether the scan has been created successfully or not.

## Response Sample

String

### GET /scanner/scanprofiles/{profileid}

Retrieves a scan profile for a given Scan Profile ID.

The only parameter required is the Scan Profile ID. The following information about a scan profile will be returned:

- profileId
- scanProfileName
- description
- scanType
- scannerName
- scannerName
- schedule
- status
- progress
- lastRunTime
- duration

Table 455. GET /scanner/scanprofiles/{profileid} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 456. GET /scanner/scanprofiles/{profileid} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	The unique id of the scan profile we need to retrieve information for.

Table 457. GET /scanner/scanprofiles/{profileid} response codes.

HTTP Response Code	Unique Code	Description
200		The scan profile was successfully returned.
500	1030	Occurs when an attempt is made to list a scan profile when certain conditions are not met, or when too many scan requests have been made.

## Response Description

The list of scan profiles currently configured in QRadar Vulnerability Manager.



## Response Sample

```
[
  {
    "description": "String",
    "duration": {
      "days": 42,
      "hours": 42,
      "minutes": 42,
      "months": 42,
      "seconds": 42.5,
      "type": "String",
      "value": "String",
      "years": 42
    },
    "endTime": {
      "date": 42,
      "day": 42,
      "hours": 42,
      "minutes": 42,
      "month": 42,
      "seconds": 42,
      "time": 42,
      "timezoneOffset": 42,
      "year": 42
    },
    "progress": 42,
    "scanProfileId": 42,
    "scanProfileName": "String",
    "scanType": "String",
    "scannerName": "String",
    "schedule": "String",
    "status": "String"
  }
]
```

## POST /scanner/scanprofiles/{profileid}

Update a scan profile.

The following information on a scan profile can be updated:

- scanProfileName
- description
- ips

Table 458. POST /scanner/scanprofiles/{profileid} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 459. POST /scanner/scanprofiles/{profileid} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	The unique id of the scan profile used to update,

Table 460. POST /scanner/scanprofiles/{profileid} request body details.

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	JSON	application/json		

Table 461. POST /scanner/scanprofiles/{profileid} response codes.

HTTP Response Code	Unique Code	Description
202		The scan profile was successfully updated.
500	1030	Occurs when an attempt is made to update a scan profile when certain conditions are not met, or when too many scan requests have been made.

## Response Description

A message to indicate whether the scan profile has updated or not.

## Response Sample

### DELETE /scanner/scanprofiles/{profileid}

Initiates a request to delete a scanProfile.

Table 462. DELETE /scanner/scanprofiles/{profileid} resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 463. DELETE /scanner/scanprofiles/{profileid} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	

Table 464. DELETE /scanner/scanprofiles/{profileid} response codes.

HTTP Response Code	Unique Code	Description
204		The scan has been successfully deleted.
500	1030	Occurs when an attempt is made to delete a scan when certain conditions are not met, or when too many scan requests have been made.

## Response Description

An indicator of whether the scan has been deleted successfully or not.

## Response Sample

String

## POST /scanner/scanprofiles/{profileid}/start

Initiates a request to start an already created scanProfile.

To get a list of scanProfileIds, get a list of the current scan profiles by initiating a profiles request on the scanner endpoint. The scanProfileId will be validated and an appropriate message returned.

Table 465. POST /scanner/scanprofiles/{profileid}/start resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 466. POST /scanner/scanprofiles/{profileid}/start request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	The unique id of the scan profile we want to start.

Table 467. POST /scanner/scanprofiles/{profileid}/start request body details.

Parameter	Data Type	MIME Type	Description	Sample
ips	JSON	application/json		

Table 468. POST /scanner/scanprofiles/{profileid}/start request body details.

Parameter	Data Type	MIME Type	Description	Sample
ips	JSON	application/json		

## Response Description

An indicator of whether the scan has been started successfully or not.

## Response Sample

String

---

## REST API V0.2 References

Each API reference provides information about the parameters, mime type, stability, and responses for each endpoint.

## Reference Data endpoints

Use the references for REST API V0.1 reference data endpoints.

## GET /referencedata/mapOfSets

Retrieve a list of all reference map of sets.

Table 469. GET /referencedata/mapOfSets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 470. GET /referencedata/mapOfSets response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets list were retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference map of sets.

## Response Description

A list of all of the reference map of sets. This returns information about the map of sets but not the contained data.

## Response Sample

```
[
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398377702319,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398377702319,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398377702319,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  }
]
```

## POST /referencedata/mapOfSets

Create a new reference map of sets.

Table 471. POST /referencedata/mapOfSets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 472. *POST /referencedata/mapOfSets request parameter details.*

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference map of sets to create
elementType	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference map of sets. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
keyLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the keys
valueLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the data values
timeoutType	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the timeToLive interval is based on when the data was first seen or last seen.
timeToLive	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"

Table 473. *POST /referencedata/mapOfSets response codes.*

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference map of sets could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference map of sets.

## Response Description

Information about the newly created reference map of sets.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 0
}
```

## GET /referencedata/mapOfSets/{name}

Return the reference map of sets identified by the **name** parameter. If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 474. GET /referencedata/mapOfSets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 475. GET /referencedata/mapOfSets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to retrieve.
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference map of sets. The default value is 0.

Table 476. GET /referencedata/mapOfSets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets has been retrieved.
404	1002	The reference map of sets does not exist.

Table 476. GET /referencedata/mapOfSets/{name} response codes (continued).

HTTP Response Code	Unique Code	Description
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference map of sets.

## Response Description

The reference map of sets identified by the name specified in the request. The portion of the reference map of sets' data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 9,
  "data": {
    "String1": [
      {
        "value": "String",
        "source": "String",
        "firstSeen": 1398377702319,
        "lastSeen": 1398377702319
      },
      {
        "value": "String",
        "source": "String",
        "firstSeen": 1398377702319,
        "lastSeen": 1398377702319
      },
      {
        "value": "String",
        "source": "String",
        "firstSeen": 1398377702319,
        "lastSeen": 1398377702319
      }
    ],
    "String2": [
      {
        "value": "String",
        "source": "String",
        "firstSeen": 1398377702319,
        "lastSeen": 1398377702319
      },
      {
        "value": "String",
        "source": "String",
        "firstSeen": 1398377702319,
        "lastSeen": 1398377702319
      },
      {
        "value": "String",
        "source": "String",
        "firstSeen": 1398377702319,
        "lastSeen": 1398377702319
      }
    ]
  }
}
```

```

        "firstSeen": 1398377702319,
        "lastSeen": 1398377702319
    },
    "String3": [
        {
            "value": "String",
            "source": "String",
            "firstSeen": 1398377702319,
            "lastSeen": 1398377702319
        },
        {
            "value": "String",
            "source": "String",
            "firstSeen": 1398377702319,
            "lastSeen": 1398377702319
        },
        {
            "value": "String",
            "source": "String",
            "firstSeen": 1398377702319,
            "lastSeen": 1398377702319
        }
    ]
}

```

## POST /referencedata/mapOfSets/{name}

Add or update an element in a reference map of sets.

Table 477. POST /referencedata/mapOfSets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 478. POST /referencedata/mapOfSets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to add or update an element in
key	QUERY	Required	String	text/plain	Required. The key of the set to add or update
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference map of sets. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.



Table 478. *POST /referencedata/mapOfSets/{name}* request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
source	QUERY	Optional	String	text/plain	Optional. This indicates where the data originated. The default value is 'reference data api'

Table 479. *POST /referencedata/mapOfSets* response codes.

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference map of sets could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference map of sets.

## Response Description

Information about the reference map of sets that has had an element added or updated. This returns information about the reference map of sets but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 5
}
```

## DELETE /referencedata/mapOfSets/{name}

Remove a map of sets or purge its contents.

Table 480. *DELETE /referencedata/mapOfSets/{name}* resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 481. DELETE /referencedata/mapOfSets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to remove or purge.
purgeOnly	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference map of sets should have its contents purged (true), keeping the reference map of sets structure. If the value is "false" or not specified, the reference map of sets will be removed completely.

Table 482. DELETE /referencedata/mapOfSets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had its contents purged.
204		The reference map has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference map of sets does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference map of sets.

## Response Description

If the reference map of sets was removed nothing is returned, otherwise information about the reference map of sets that had its contents purged is returned.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
}
```

```

    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 0
  }

```

## DELETE /referencedata/mapOfSets/{name}/{key}

Remove a value from a reference map of sets.

Table 483. DELETE /referencedata/mapOfSets/{name}/{key} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 484. DELETE /referencedata/mapOfSets/{name}/{key} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to remove a value from.
key	PATH	Required	String	text/plain	Required. The key of the value to remove.
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference map of sets. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 485. DELETE /referencedata/mapOfSets/{name}/{key} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets has had a value removed
422	1005	A request parameter is not valid.
404	1002	The reference map of sets does not exist.
404	1003	The record does not exist in the reference map of sets.
500	1020	An error occurred while attempting to remove the reference map of sets value.

## Response Description

Information about the reference map of sets that had a value removed. This returns information about the reference map of sets but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 5
}
```

## GET /referencedata/maps

Retrieve a list of all reference maps.

Table 486. GET /referencedata/maps resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 487. GET /referencedata/maps response codes.

HTTP Response Code	Unique Code	Description
200		The reference map list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference maps.

## Response Description

A list of all of the reference maps. This returns information about the maps but not the contained data.

## Response Sample

```
[
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398265631810,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398265631810,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  },
  {

```

```

    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398265631810,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  }
]

```

## POST /referencedata/maps

Create a new reference map.

Table 488. POST /referencedata/maps resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 489. POST /referencedata/maps request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference map to create
keyLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the keys
valueLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the data values
elementType	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference map. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
timeoutType	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the timeToLive interval is based on when the data was first seen or last seen.
timeToLive	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"

Table 490. POST /referencedata/maps response codes.

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created.
422	1005	parameters were invalid.
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.

Table 490. *POST /referencedata/maps* response codes (continued).

HTTP Response Code	Unique Code	Description
500	1020	An error occurred while attempting to create the reference map.

## Response Description

Information about the newly created reference map.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398265631810,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "key1Label": "String",
  "valueLabel": "String",
  "numberOfElements": 0
}
```

## GET /referencedata/maps/{name}

Retrieve the reference map identified by the **name** parameter. If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 491. *GET /referencedata/maps/{name}* resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 492. *GET /referencedata/maps/{name}* request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to retrieve
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference map. The default value is 0.

Table 493. GET /referencedata/maps/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has been retrieved.
404	1002	The reference map does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference map.

## Response Description

The reference map identified by the name specified in the request. The portion of the reference map's data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1396355660000,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 3,
  "data": {
    "String": {
      "value": "String",
      "source": "String",
      "firstSeen": 1396355660001,
      "lastSeen": 1396355660001
    },
    "String": {
      "value": "String",
      "source": "String",
      "firstSeen": 1396355660001,
      "lastSeen": 1396355660001
    },
    "String": {
      "value": "String",
      "source": "String",
      "firstSeen": 1396355660001,
      "lastSeen": 1396355660001
    }
  }
}
```

## POST /referencedata/maps/{name}

Add or update an element in a reference map.

Table 494. POST /referencedata/maps/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 495. *POST /referencedata/maps/{name}* request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to add or update an element in
key	QUERY	Required	String	text/plain	Required. The key who's value we want to add or update
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference map. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is 'reference data api'

Table 496. *POST /referencedata/maps/{name}* response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had an element added or updated.
404	1002	The reference map does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference map.

## Response Description

Information about the reference map that had an element added or updated. This returns information about reference map but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398265631810,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
```



```

    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 5
}

```

## DELETE /referencedata/maps/{name}

Remove a reference map or purge its contents.

Table 497. DELETE /referencedata/maps/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 498. DELETE /referencedata/maps/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to remove or purge
purgeOnly	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference map should have its contents purged (true), keeping the reference map structure. If the value is "false" or not specified the reference map will be removed completely.

Table 499. DELETE /referencedata/maps/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had its contents purged.
204		The reference map has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference map does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference map.

## Response Description

If the reference map was removed nothing is returned, otherwise information about the reference map that had its contents purged is returned.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398265631810,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "key1Label": "String",
  "valueLabel": "String",
  "numberOfElements": 0
}
```

## DELETE /referencedata/maps/{name}/{key}

Remove a value from a reference map.

Table 500. DELETE /referencedata/maps/{name}/{key} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 501. DELETE /referencedata/maps/{name}/{key} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to remove a value from
key	PATH	Required	String	text/plain	Required. The key of the value to remove
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference map. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 502. DELETE /referencedata/maps/{name}/{key} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference map does not exist.
404	1003	The record does not exist in the reference map.
500	1020	An error occurred while attempting to remove the value from the reference map.

## Response Description

Information about the reference map that had an element removed. This returns information about map but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398265631810,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "key1Label": "String",
  "valueLabel": "String",
  "numberOfElements": 5
}
```

## GET /referencedata/sets

Retrieve a list of all reference sets.

Table 503. GET /referencedata/sets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 504. GET /referencedata/sets response codes.

HTTP Response Code	Unique Code	Description
200		The reference set list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference sets.

## Response Description

A list of all of the reference sets. This returns information about the sets but not the contained data.

## Response Sample

```
[
  {
    "creationTime": 42,
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "name": "String",
    "numberOfElements": 42,
    "timeToLive": "String",
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  },
  {
    "creationTime": 42,
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "name": "String",
    "numberOfElements": 42,
    "timeToLive": "String",
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  }
]
```

```

    },
    {
      "creationTime": 42,
      "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "name": "String",
      "numberOfElements": 42,
      "timeToLive": "String",
      "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
    }
  ]

```

## POST /referencedata/sets

Create a new reference set.

Table 505. POST /referencedata/sets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 506. POST /referencedata/sets request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference set being created
elementType	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference set. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
timeoutType	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the timeToLive interval is based on when the data was first seen or last seen.
timeToLive	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"

Table 507. POST /referencedata/sets response codes.

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created.

Table 507. *POST /referencedata/sets response codes (continued).*

HTTP Response Code	Unique Code	Description
422	1005	A request parameter is not valid.
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference set.

## Response Description

Information about the newly created reference set.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398777706999,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 0
}
```

## POST /referencedata/sets/bulkLoad/{name}

Add or update data in a reference set.

Table 508. *POST /referencedata/sets/bulkLoad/{name} resource details.*

Stability	MIME Type
EXPERIMENTAL	application/json

Table 509. *POST /referencedata/sets/bulkLoad/{name} request parameter details.*

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of set to add or update data in

Table 510. *POST /referencedata/sets/bulkLoad/{name} request body details.*

Parameter	Data Type	MIME Type	Description	Sample
data	JSON	application/json	Required - The JSON formatted data to add or update in the reference set	["String", "String", "String", "String", "String", "String", "String", "String", "String", "String", "String"]

Table 511. *POST /referencedata/sets/bulkLoad/{name}* response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had data added or updated.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference set.
400	1001	An error occurred parsing the JSON formatted message body.

## Response Description

Information about the reference set that had data added or updated. This returns information about the reference set but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 139877706999,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 0
}
```

## GET /referencedata/sets/{name}

Retrieve the reference set identified by the **name** parameter. If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 512. *GET /referencedata/sets/{name}* resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 513. *GET /referencedata/sets/{name}* request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to retrieve.
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.

Table 513. GET /referencedata/sets/{name} request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference set. The default value is 0.

Table 514. GET /referencedata/sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has been retrieved.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference set.

## Response Description

The reference set identified by the name specified in the request. The portion of the set's data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398277745579,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 3,
  "data": [
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398277745579,
      "lastSeen": 1398277745579
    },
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398277745579,
      "lastSeen": 1398277745579
    },
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398277745579,
      "lastSeen": 1398277745579
    }
  ]
}
```

```

    "lastSeen": 1398277745579
  }
]
}

```

## POST /referencedata/sets/{name}

Add or update an element in a reference set.

Table 515. POST /referencedata/sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 516. POST /referencedata/sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to add or update an element in
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference set. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is 'reference data api'

Table 517. POST /referencedata/sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had an element added or updated.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update an element in the reference set.

## Response Description

Information about the reference set that had an element added or updated. This returns information about the reference set but not the contained data.



## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 139877706999,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 5
}
```

## DELETE /referencedata/sets/{name}

Remove a reference set or purge its contents.

Table 518. DELETE /referencedata/sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 519. DELETE /referencedata/sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the set to remove or purge
purgeOnly	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference set should have its contents purged (true), keeping the reference set structure. If the value is "false" or not specified the reference set will be removed completely.

Table 520. DELETE /referencedata/sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had its contents purged.
204		The reference set has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference set does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference set.

## Response Description

If the reference set was removed nothing is returned, otherwise information about the reference set that had its contents purged is returned.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 139877706999,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 0
}
```

## DELETE /referencedata/sets/{name}/{value}

Remove a value from a reference set.

Table 521. DELETE /referencedata/sets/{name}/{value} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 522. DELETE /referencedata/sets/{name}/{value} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to remove a value from
value	PATH	Required	String	text/plain	Required. The value to remove from the reference set. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 523. DELETE /referencedata/sets/{name}/{value} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference set does not exist.
404	1003	The record does not exist in the reference set.
500	1020	An error occurred while attempting to remove the value from the reference set.

## Response Description

Information about the reference set that had an value removed. This returns information about the reference set but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 139877706999,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 5
}
```

## GET /referencedata/tables

Retrieve a list of all reference tables.

Table 524. GET /referencedata/tables resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 525. GET /referencedata/tables response codes.

HTTP Response Code	Unique Code	Description
200		The reference table list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference tables.

## Response Description

A list of all of the reference tables. This returns information about the tables but not the contained data.

## Response Sample

```
[
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1397773789254,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "numberOfElements": 42,
    "keyNameTypes": {
      "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
    }
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",

```

```

    "createdTime": 1397773789254,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "numberOfElements": 42,
    "keyNameTypes": {
      "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
    }
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1397773789254,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "numberOfElements": 42,
    "keyNameTypes": {
      "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
    }
  }
]

```

## POST /referencedata/tables

Create a new reference table.

Table 526. POST /referencedata/tables resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 527. POST /referencedata/tables request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference table to create
elementType	QUERY	Required	String	text/plain	Required. The default element type for the values allowed in the reference table. This is used when values are added or updated in the reference table who's inner key was not defined in the <b>&lt;b&gt;keyNameTypes&lt;/b&gt;</b> parameter. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
outerKeyLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the outer keys
timeoutType	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the timeToLive interval is based on when the data was first seen or last seen. "
timeToLive	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"
keyNameTypes	QUERY	Optional	JSON	application/json	Optional. A JSON formatted string. This array creates the inner key names and corresponding value types for the table

Table 528. POST /referencedata/tables response codes.

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference table.

## Response Description

Information about the newly created reference table.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1397773789254,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "numberOfElements": 0,
  "keyNameTypes": {
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  }
}
```

## GET /referencedata/tables/{name}

Return the reference table identified by the **name** parameter. If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 529. GET /referencedata/tables/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 530. GET /referencedata/tables/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to retrieve
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.

Table 530. GET /referencedata/tables/{name} request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference table. The default value is 0.

Table 531. GET /referencedata/tables/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table has been retrieved.
404	1002	The reference table does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference table.

## Response Description

The reference table identified by the name specified in the request. The portion of the reference table's data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "name": "String",
  "elementType": "ALN",
  "createdTime": 1398888888888,
  "timeoutType": "LAST_SEEN",
  "timeToLive": "0 years 1 mons 0 days 0 hours 0 mins 0.00 secs",
  "key1Label": "String",
  "numberOfElements": 6,
  "keyNameTypes": {
    "String1": "ALN",
    "String2": "ALN",
    "String3": "ALN"
  },
  "data": {
    "String2": {
      "String1": {
        "value": "String",
        "source": "String",
        "firstSeen": 1398888888888,
        "lastSeen": 1398888888888
      }
    },
    "String3": {
      "String1": {
        "value": "String",

```

```
{
  "source": "String",
  "firstSeen": 139888888888888,
  "lastSeen": 13988888888888
},
{
  "String2": {
    "value": "String",
    "source": "String",
    "firstSeen": 139888888888888,
    "lastSeen": 13988888888888
  }
},
{
  "String1": {
    "String1": {
      "value": "String",
      "source": "String",
      "firstSeen": 139888888888888,
      "lastSeen": 13988888888888
    },
    "String2": {
      "value": "String",
      "source": "String",
      "firstSeen": 139888888888888,
      "lastSeen": 13988888888888
    },
    "String3": {
      "value": "String",
      "source": "String",
      "firstSeen": 139888888888888,
      "lastSeen": 13988888888888
    }
  }
}
}
```

## POST /referencedata/tables/{name}

Add or update an element in a reference table. The value to be added must be of the appropriate type: either the type that corresponds to the innerKey predefined for the reference table, or the default elementType of the reference table.

Table 532. POST /referencedata/tables/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 533. POST /referencedata/tables/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to add or update an element in.
outerKey	QUERY	Required	String	text/plain	Required. The outer key for the element to add or update.
innerKey	QUERY	Required	String	text/plain	Required. The inner key for the element to add or update.

Table 533. *POST /referencedata/tables/{name} request parameter details (continued).*

Parameter	Type	Optionality	Data Type	MIME Type	Description
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference table. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is reference data api.

Table 534. *POST /referencedata/tables/{name} response codes.*

HTTP Response Code	Unique Code	Description
200		The reference table has had an element added or updated.
404	1002	The reference table does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference table.

## Response Description

Information about the reference table that had an element added or updated. This returns information about the reference table but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1397773789254,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "key1Label": "String",
  "numberOfElements": 5,
  "keyNameTypes": {
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  }
}
```



## DELETE /referencedata/tables/{name}

Remove a reference table or purge its contents.

Table 535. DELETE /referencedata/tables/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 536. DELETE /referencedata/tables/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to remove or purge
purgeOnly	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference table should have its contents purged (true), keeping the reference table structure. If the value is "false" or not specified the reference table will be removed completely.

Table 537. DELETE /referencedata/tables/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table has had its contents purged.
204		The reference table has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference table does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference table.

## Response Description

If the table was removed nothing is returned, otherwise information about the reference table that had its contents purged is returned.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
```

```

    "createdTime": 1397773789254,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "numberOfElements": 0,
    "keyNameTypes": {
      "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
    }
  }
}

```

## DELETE /referencedata/tables/{name}/{outerKey}/{innerKey}

Remove a value from a reference table.

Table 538. DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 539. DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to remove a value from
outerKey	PATH	Required	String	text/plain	Required. The outer key of the value to remove
innerKey	PATH	Required	String	text/plain	Required. The inner key of the value to remove
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference table. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 540. DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table had had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference table does not exist.

Table 540. DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes (continued).

HTTP Response Code	Unique Code	Description
404	1003	The record does not exist in the reference table.
500	1020	An error occurred while attempting to remove the reference table value.

## Response Description

Information about the reference table that had an element removed. This returns information about table but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1397773789254,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "key1Label": "String",
  "numberOfElements": 5,
  "keyNameTypes": {
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  }
}
```

## Scanner endpoints

Use the references for REST API V0.1 scanner endpoints.

### GET /scanner/profiles

Retrieves all of the currently created scan profiles.

No parameters are required and the following information should be retrieved for each scan profile:

- scanProfileId
- scanProfileName
- description
- scanType
- scannerName

Table 541. GET /scanner/profiles resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 542. GET /scanner/profiles response codes.

HTTP Response Code	Unique Code	Description
200		The list of scan profiles was successfully returned.
500	1030	Occurs when an attempt is made to list scan profiles when certain conditions are not met, or when too many scan requests have been made.

## Response Description

The list of scan profiles currently configured in QRadar Vulnerability Manager.

## Response Sample

### POST /scanner/profiles/create

Initiates a request to create a new scanProfile.

The request takes one parameter - createScanRequest, which is just a POJO. To create the scan, you will need to build up a JSON object that contains the Scan Profile name and hosts to scan, for example, {'name': 'New Scan Profile', 'ips': ['10.100.85.135']}

Table 543. POST /scanner/profiles/create resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 544. POST /scanner/profiles/create request body details.

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	JSON	application/json		

Table 545. POST /scanner/profiles/create response codes.

HTTP Response Code	Unique Code	Description
200		The scan has been successfully created.
419	9101	Occurs when a parameter is missing or invalid.
500	1030	Occurs when an attempt is made to create a scan when certain conditions are not met, or when too many scan requests have been made.

## Response Description

An indicator of whether the scan has been created successfully or not.

## Response Sample

String

## POST /scanner/profiles/start

Initiates a request to start an already created scanProfile.

The request takes one parameter: the **scanProfileId** parameter. To get a list of scanProfileIds, get a list of the current scan profiles by initiating a profiles request on the scanner endpoint. The **scanProfileId** parameter is validated and an appropriate message is returned.

Table 546. POST /scanner/profiles/start resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 547. POST /scanner/profiles/start request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
scanProfileId	QUERY	Required	String	text/plain	The unique id of the scan profile we want to start,

Table 548. POST /scanner/profiles/start response codes.

HTTP Response Code	Unique Code	Description
200		The scan has been successfully started,
403	1000	Occurs if the user does not have permission to start a scan, or the scan is in progress,
500	1030	Occurs when an attempt is made to start a scan when certain conditions are not met, or when too many scan requests have been made.

## Response Description

An indicator of whether the scan has been started successfully or not.

## Response Sample

String

## GET /scanner/scanprofiles

Retrieves all of the currently created scan profiles.

No parameters are required and the following information should be retrieved for each scan profile:

- profileId
- scanProfileName
- description
- scanType
- scannerName
- schedule
- status
- progress

- lastRunTime
- duration

Table 549. GET /scanner/scanprofiles resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 550. GET /scanner/scanprofiles response codes.

HTTP Response Code	Unique Code	Description
200		The list of scan profiles was successfully returned.
500	1030	Occurs when an attempt is made to list scan profiles when certain conditions are not met, or when too many scan requests have been made.

## Response Description

The list of scan profiles currently configured in QRadar Vulnerability Manager.

## Response Sample

```
[
  {
    "description": "String",
    "duration": {
      "days": 42,
      "hours": 42,
      "minutes": 42,
      "months": 42,
      "seconds": 42.5,
      "type": "String",
      "value": "String",
      "years": 42
    },
    "endTime": {
      "date": 42,
      "day": 42,
      "hours": 42,
      "minutes": 42,
      "month": 42,
      "seconds": 42,
      "time": 42,
      "timezoneOffset": 42,
      "year": 42
    },
    "progress": 42,
    "scanProfileId": 42,
    "scanProfileName": "String",
    "scanType": "String",
    "scannerName": "String",
    "schedule": "String",
    "status": "String"
  }
]
```

## POST /scanner/scanprofiles

Initiates a request to create a new scanProfile.

The request takes one parameter - createScanRequest, which is just a POJO. To create the scan, you will need to build up a JSON object that contains the Scan Profile name and hosts to scan, for example, {'name': 'New Scan Profile', 'ips': ['10.100.85.135']}

Table 551. POST /scanner/scanprofiles resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 552. POST /scanner/scanprofiles request body details.

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	JSON	application/json		{ "description": "String", "hosts": [ "String", "String", "String" ], "name": "String" }

Table 553. POST /scanner/scanprofiles response codes.

HTTP Response Code	Unique Code	Description
204		The scan has been successfully created.
500	1030	Occurs when an attempt is made to create a scan when certain conditions are not met, or when too many scan requests have been made.

## Response Description

An indicator of whether the scan has been created successfully or not.

## Response Sample

String

## GET /scanner/scanprofiles/{profileid}

Retrieves a scan profile for a given Scan Profile ID.

The only parameter required is the Scan Profile ID. The following information about a scan profile will be returned:

- profileId
- scanProfileName
- description
- scanType
- scannerName
- scannerName
- schedule
- status
- progress

- lastRunTime
- duration

Table 554. GET /scanner/scanprofiles/{profileid} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 555. GET /scanner/scanprofiles/{profileid} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	The unique id of the scan profile we need to retrieve information for.

Table 556. GET /scanner/scanprofiles/{profileid} response codes.

HTTP Response Code	Unique Code	Description
200		The scan profile was successfully returned.
500	1030	Occurs when an attempt is made to list a scan profile when certain conditions are not met, or when too many scan requests have been made.

## Response Description

The list of scan profiles currently configured in QRadar Vulnerability Manager.

## Response Sample

```
[
  {
    "description": "String",
    "duration": {
      "days": 42,
      "hours": 42,
      "minutes": 42,
      "months": 42,
      "seconds": 42.5,
      "type": "String",
      "value": "String",
      "years": 42
    },
    "endTime": {
      "date": 42,
      "day": 42,
      "hours": 42,
      "minutes": 42,
      "month": 42,
      "seconds": 42,
      "time": 42,
      "timezoneOffset": 42,
      "year": 42
    },
    "progress": 42,
    "scanProfileId": 42,
    "scanProfileName": "String",
```



```

        "scanType": "String",
        "scannerName": "String",
        "schedule": "String",
        "status": "String"
    } }
]

```

## POST /scanner/scanprofiles/{profileid}

Update a scan profile.

The following information on a scan profile can be updated:

- scanProfileName
- description
- ips

Table 557. POST /scanner/scanprofiles/{profileid} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 558. POST /scanner/scanprofiles/{profileid} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	The unique id of the scan profile used to update,

Table 559. POST /scanner/scanprofiles/{profileid} request body details.

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	JSON	application/json		

Table 560. POST /scanner/scanprofiles/{profileid} response codes.

HTTP Response Code	Unique Code	Description
202		The scan profile was successfully updated.
500	1030	Occurs when an attempt is made to update a scan profile when certain conditions are not met, or when too many scan requests have been made.

## Response Description

A message to indicate whether the scan profile has updated or not.

## Response Sample

### DELETE /scanner/scanprofiles/{profileid}

Initiates a request to delete a scanProfile.

Table 561. DELETE /scanner/scanprofiles/{profileid} resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 562. DELETE /scanner/scanprofiles/{profileid} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	

Table 563. DELETE /scanner/scanprofiles/{profileid} response codes.

HTTP Response Code	Unique Code	Description
204		The scan has been successfully deleted.
500	1030	Occurs when an attempt is made to delete a scan when certain conditions are not met, or when too many scan requests have been made.

## Response Description

An indicator of whether the scan has been deleted successfully or not.

## Response Sample

String

### POST /scanner/scanprofiles/{profileid}/start

Initiates a request to start an already created scanProfile.

To get a list of scanProfileIds, get a list of the current scan profiles by initiating a profiles request on the scanner endpoint. The scanProfileId will be validated and an appropriate message returned.

Table 564. POST /scanner/scanprofiles/{profileid}/start resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 565. POST /scanner/scanprofiles/{profileid}/start request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
profileid	PATH	Required	String	text/plain	The unique id of the scan profile we want to start.

Table 566. *POST /scanner/scanprofiles/{profileid}/start request body details.*

Parameter	Data Type	MIME Type	Description	Sample
ips	JSON	application/json		

Table 567. *POST /scanner/scanprofiles/{profileid}/start request body details.*

Parameter	Data Type	MIME Type	Description	Sample
ips	JSON	application/json		

## Response Description

An indicator of whether the scan has been started successfully or not.

## Response Sample

String

# REST API V0.1 References

Each API reference provides information about the parameters, mime type, stability, and responses for each endpoint.

## Reference Data endpoints

Use the references for REST API V0.1 reference data endpoints.

### GET /referencedata/mapOfSets

Retrieve a list of all reference map of sets.

Table 568. *GET /referencedata/mapOfSets resource details.*

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 569. *GET /referencedata/mapOfSets response codes.*

HTTP Response Code	Unique Code	Description
200		The reference map of sets list were retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference map of sets.

## Response Description

A list of all of the reference map of sets. This returns information about the map of sets but not the contained data.

## Response Sample

```
[
  {
    "name": "String",
```

```

"elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
"createdTime": 1398377702319,
"timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
"timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
"keyLabel": "String",
"valueLabel": "String",
"numberOfElements": 42
},
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 42
},
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 42
}
]

```

## POST /referencedata/mapOfSets

Create a new reference map of sets.

Table 570. POST /referencedata/mapOfSets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 571. POST /referencedata/mapOfSets request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference map of sets to create
elementType	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference map of sets. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
keyLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the keys

Table 571. POST /referencedata/mapOfSets request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
valueLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the data values
timeoutType	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the timeToLive interval is based on when the data was first seen or last seen.
timeToLive	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"

Table 572. POST /referencedata/mapOfSets response codes.

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference map of sets could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference map of sets.

## Response Description

Information about the newly created reference map of sets.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 0
}
```

## GET /referencedata/mapOfSets/{name}

Return the reference map of sets identified by the **name** parameter. If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 573. GET /referencedata/mapOfSets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 574. GET /referencedata/mapOfSets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to retrieve.
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference map of sets. The default value is 0.

Table 575. GET /referencedata/mapOfSets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets has been retrieved.
404	1002	The reference map of sets does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference map of sets.

## Response Description

The reference map of sets identified by the name specified in the request. The portion of the reference map of sets' data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 9,
```

```

"data": {
  "String1": [
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398377702319,
      "lastSeen": 1398377702319
    },
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398377702319,
      "lastSeen": 1398377702319
    },
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398377702319,
      "lastSeen": 1398377702319
    }
  ],
  "String2": [
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398377702319,
      "lastSeen": 1398377702319
    },
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398377702319,
      "lastSeen": 1398377702319
    },
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398377702319,
      "lastSeen": 1398377702319
    }
  ],
  "String3": [
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398377702319,
      "lastSeen": 1398377702319
    },
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398377702319,
      "lastSeen": 1398377702319
    },
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398377702319,
      "lastSeen": 1398377702319
    }
  ]
}

```

## POST /referencedata/mapOfSets/{name}

Add or update an element in a reference map of sets.

Table 576. POST /referencedata/mapOfSets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 577. POST /referencedata/mapOfSets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to add or update an element in
key	QUERY	Required	String	text/plain	Required. The key of the set to add or update
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference map of sets. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. This indicates where the data originated. The default value is 'reference data api'

Table 578. POST /referencedata/mapOfSets response codes.

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference map of sets could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference map of sets.



## Response Description

Information about the reference map of sets that has had an element added or updated. This returns information about the reference map of sets but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 5
}
```

## DELETE /referencedata/mapOfSets/{name}

Remove a map of sets or purge its contents.

Table 579. DELETE /referencedata/mapOfSets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 580. DELETE /referencedata/mapOfSets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to remove or purge.
purgeOnly	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference map of sets should have its contents purged (true), keeping the reference map of sets structure. If the value is "false" or not specified, the reference map of sets will be removed completely.

Table 581. DELETE /referencedata/mapOfSets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had its contents purged.

Table 581. DELETE /referencedata/mapOfSets/{name} response codes (continued).

HTTP Response Code	Unique Code	Description
204		The reference map has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference map of sets does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference map of sets.

## Response Description

If the reference map of sets was removed nothing is returned, otherwise information about the reference map of sets that had its contents purged is returned.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 0
}
```

## DELETE /referencedata/mapOfSets/{name}/{key}

Remove a value from a reference map of sets.

Table 582. DELETE /referencedata/mapOfSets/{name}/{key} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 583. DELETE /referencedata/mapOfSets/{name}/{key} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map of sets to remove a value from.
key	PATH	Required	String	text/plain	Required. The key of the value to remove.

Table 583. DELETE /referencedata/mapOfSets/{name}/{key} request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference map of sets. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 584. DELETE /referencedata/mapOfSets/{name}/{key} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map of sets has had a value removed
422	1005	A request parameter is not valid.
404	1002	The reference map of sets does not exist.
404	1003	The record does not exist in the reference map of sets.
500	1020	An error occurred while attempting to remove the reference map of sets value.

## Response Description

Information about the reference map of sets that had a value removed. This returns information about the reference map of sets but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398377702319,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 5
}
```

## GET /referencedata/maps

Retrieve a list of all reference maps.

Table 585. GET /referencedata/maps resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 586. GET /referencedata/maps response codes.

HTTP Response Code	Unique Code	Description
200		The reference map list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference maps.

## Response Description

A list of all of the reference maps. This returns information about the maps but not the contained data.

## Response Sample

```
[
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398265631810,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398265631810,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1398265631810,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  }
]
```

## POST /referencedata/maps

Create a new reference map.

Table 587. POST /referencedata/maps resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 588. POST /referencedata/maps request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference map to create
keyLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the keys
valueLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the data values
elementType	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference map. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
timeoutType	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the timeToLive interval is based on when the data was first seen or last seen.
timeToLive	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"

Table 589. POST /referencedata/maps response codes.

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created.
422	1005	parameters were invalid.
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference map.

## Response Description

Information about the newly created reference map.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398265631810,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 0
}
```

## GET /referencedata/maps/{name}

Retrieve the reference map identified by the **name** parameter. If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 590. GET /referencedata/maps/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 591. GET /referencedata/maps/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to retrieve
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference map. The default value is 0.

Table 592. GET /referencedata/maps/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has been retrieved.
404	1002	The reference map does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference map.

## Response Description

The reference map identified by the name specified in the request. The portion of the reference map's data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
```

```

"createdTime": 1396355660000,
"timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
"timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
"keyLabel": "String",
"valueLabel": "String",
"numberOfElements": 3,
"data": {
  "String": {
    "value": "String",
    "source": "String",
    "firstSeen": 1396355660001,
    "lastSeen": 1396355660001
  },
  "String": {
    "value": "String",
    "source": "String",
    "firstSeen": 1396355660001,
    "lastSeen": 1396355660001
  },
  "String": {
    "value": "String",
    "source": "String",
    "firstSeen": 1396355660001,
    "lastSeen": 1396355660001
  }
}
}

```

## POST /referencedata/maps/{name}

Add or update an element in a reference map.

Table 593. POST /referencedata/maps/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 594. POST /referencedata/maps/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to add or update an element in
key	QUERY	Required	String	text/plain	Required. The key who's value we want to add or update
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference map. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 594. *POST /referencedata/maps/{name}* request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is 'reference data api'

Table 595. *POST /referencedata/maps/{name}* response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had an element added or updated.
404	1002	The reference map does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference map.

## Response Description

Information about the reference map that had an element added or updated. This returns information about reference map but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398265631810,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "valueLabel": "String",
  "numberOfElements": 5
}
```

## DELETE /referencedata/maps/{name}

Remove a reference map or purge its contents.

Table 596. *DELETE /referencedata/maps/{name}* resource details.

Stability	MIME Type
EXPERIMENTAL	application/json



Table 597. DELETE /referencedata/maps/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to remove or purge
purgeOnly	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference map should have its contents purged (true), keeping the reference map structure. If the value is "false" or not specified the reference map will be removed completely.

Table 598. DELETE /referencedata/maps/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had its contents purged.
204		The reference map has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference map does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference map.

## Response Description

If the reference map was removed nothing is returned, otherwise information about the reference map that had its contents purged is returned.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398265631810,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "key1Label": "String",
  "valueLabel": "String",
  "numberOfElements": 0
}
```

## DELETE /referencedata/maps/{name}/{key}

Remove a value from a reference map.

Table 599. DELETE /referencedata/maps/{name}/{key} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 600. DELETE /referencedata/maps/{name}/{key} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference map to remove a value from
key	PATH	Required	String	text/plain	Required. The key of the value to remove
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference map. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 601. DELETE /referencedata/maps/{name}/{key} response codes.

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference map does not exist.
404	1003	The record does not exist in the reference map.
500	1020	An error occurred while attempting to remove the value from the reference map.

## Response Description

Information about the reference map that had an element removed. This returns information about map but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398265631810,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
```

```

    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "valueLabel": "String",
    "numberOfElements": 5
}

```

## GET /referencedata/sets

Retrieve a list of all reference sets.

Table 602. GET /referencedata/sets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 603. GET /referencedata/sets response codes.

HTTP Response Code	Unique Code	Description
200		The reference set list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference sets.

## Response Description

A list of all of the reference sets. This returns information about the sets but not the contained data.

## Response Sample

```

[
  {
    "creationTime": 42,
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "name": "String",
    "numberOfElements": 42,
    "timeToLive": "String",
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  },
  {
    "creationTime": 42,
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "name": "String",
    "numberOfElements": 42,
    "timeToLive": "String",
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  },
  {
    "creationTime": 42,
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "name": "String",
    "numberOfElements": 42,
    "timeToLive": "String",
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>"
  }
]

```

## POST /referencedata/sets

Create a new reference set.

Table 604. POST /referencedata/sets resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 605. POST /referencedata/sets request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference set being created
elementType	QUERY	Required	String	text/plain	Required. The element type for the values allowed in the reference set. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
timeoutType	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the timeToLive interval is based on when the data was first seen or last seen.
timeToLive	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"

Table 606. POST /referencedata/sets response codes.

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference set.

## Response Description

Information about the newly created reference set.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 139877706999,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 0
}
```

## POST /referencedata/sets/bulkLoad/{name}

Add or update data in a reference set.

Table 607. POST /referencedata/sets/bulkLoad/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 608. POST /referencedata/sets/bulkLoad/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of set to add or update data in

Table 609. POST /referencedata/sets/bulkLoad/{name} request body details.

Parameter	Data Type	MIME Type	Description	Sample
data	JSON	application/json	Required - The JSON formatted data to add or update in the reference set	["String", "String", "String", "String", "String", "String", "String", "String", "String", "String"]

Table 610. POST /referencedata/sets/bulkLoad/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had data added or updated.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference set.
400	1001	An error occurred parsing the JSON formatted message body.

## Response Description

Information about the reference set that had data added or updated. This returns information about the reference set but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 139877706999,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 0
}
```

## GET /referencedata/sets/{name}

Retrieve the reference set identified by the **name** parameter. If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 611. GET /referencedata/sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 612. GET /referencedata/sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to retrieve.
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference set. The default value is 0.

Table 613. GET /referencedata/sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has been retrieved.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.

Table 613. GET /referencedata/sets/{name} response codes (continued).

HTTP Response Code	Unique Code	Description
500	1020	An error occurred while attempting to retrieve the reference set.

## Response Description

The reference set identified by the name specified in the request. The portion of the set's data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398277745579,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 3,
  "data": [
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398277745579,
      "lastSeen": 1398277745579
    },
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398277745579,
      "lastSeen": 1398277745579
    },
    {
      "value": "String",
      "source": "String",
      "firstSeen": 1398277745579,
      "lastSeen": 1398277745579
    }
  ]
}
```

## POST /referencedata/sets/{name}

Add or update an element in a reference set.

Table 614. POST /referencedata/sets/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 615. POST /referencedata/sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to add or update an element in

Table 615. *POST /referencedata/sets/{name}* request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference set. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is 'reference data api'

Table 616. *POST /referencedata/sets/{name}* response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had an element added or updated.
404	1002	The reference set does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update an element in the reference set.

## Response Description

Information about the reference set that had an element added or updated. This returns information about the reference set but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398777706999,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 5
}
```

## DELETE /referencedata/sets/{name}

Remove a reference set or purge its contents.

Table 617. *DELETE /referencedata/sets/{name}* resource details.

Stability	MIME Type
EXPERIMENTAL	application/json



Table 618. DELETE /referencedata/sets/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the set to remove or purge
purgeOnly	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference set should have its contents purged (true), keeping the reference set structure. If the value is "false" or not specified the reference set will be removed completely.

Table 619. DELETE /referencedata/sets/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set has had its contents purged.
204		The reference set has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference set does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference set.

## Response Description

If the reference set was removed nothing is returned, otherwise information about the reference set that had its contents purged is returned.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398777706999,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 0
}
```

## DELETE /referencedata/sets/{name}/{value}

Remove a value from a reference set.

Table 620. DELETE /referencedata/sets/{name}/{value} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 621. DELETE /referencedata/sets/{name}/{value} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference set to remove a value from
value	PATH	Required	String	text/plain	Required. The value to remove from the reference set. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 622. DELETE /referencedata/sets/{name}/{value} response codes.

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference set does not exist.
404	1003	The record does not exist in the reference set.
500	1020	An error occurred while attempting to remove the value from the reference set.

## Response Description

Information about the reference set that had an value removed. This returns information about the reference set but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1398777706999,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "numberOfElements": 5
}
```

## GET /referencedata/tables

Retrieve a list of all reference tables.

Table 623. GET /referencedata/tables resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 624. GET /referencedata/tables response codes.

HTTP Response Code	Unique Code	Description
200		The reference table list has been retrieved.
500	1020	An error occurred while attempting to retrieve all of the reference tables.

## Response Description

A list of all of the reference tables. This returns information about the tables but not the contained data.

## Response Sample

```
[
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1397773789254,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "numberOfElements": 42,
    "keyNameTypes": {
      "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
    }
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1397773789254,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
    "keyLabel": "String",
    "numberOfElements": 42,
    "keyNameTypes": {
      "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
    }
  },
  {
    "name": "String",
    "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "createdTime": 1397773789254,
    "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
    "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  }
]
```

```

    "key1Label": "String",
    "numberOfElements": 42,
    "keyNameTypes": {
      "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
      "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
    }
  }
}
]

```

## POST /referencedata/tables

Create a new reference table.

Table 625. POST /referencedata/tables resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 626. POST /referencedata/tables request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	QUERY	Required	String	text/plain	Required. The name of the reference table to create
elementType	QUERY	Required	String	text/plain	Required. The default element type for the values allowed in the reference table. This is used when values are added or updated in the reference table who's inner key was not defined in the <b>keyNameTypes</b> parameter. The allowed values are: ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number) or DATE. Note that date values need to be represented in milliseconds since the Unix Epoch January 1st 1970.
outerKeyLabel	QUERY	Optional	String	text/plain	Optional. The label to describe the outer keys
timeoutType	QUERY	Optional	JSON	text/plain	Optional. The allowed values are "FIRST_SEEN", "LAST_SEEN" and "UNKNOWN". The default value is "UNKNOWN". This indicates if the timeToLive interval is based on when the data was first seen or last seen. "
timeToLive	QUERY	Optional	String	text/plain	Optional. The time to live interval, for example: "1 month" or "5 minutes"
keyNameTypes	QUERY	Optional	JSON	application/json	Optional. A JSON formatted string. This array creates the inner key names and corresponding value types for the table

Table 627. POST /referencedata/tables response codes.

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created.
422	1005	A request parameter is not valid.
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.
500	1020	An error occurred while attempting to create the reference table.

## Response Description

Information about the newly created reference table.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1397773789254,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "key1Label": "String",
  "numberOfElements": 0,
  "keyNameTypes": {
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  }
}
```

## GET /referencedata/tables/{name}

Return the reference table identified by the **name** parameter. If provided, the **limit** parameter specifies the number of records to return starting at record specified by the **offset** parameter. If not specified, then the first 20 records will be returned.

Table 628. GET /referencedata/tables/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 629. GET /referencedata/tables/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to retrieve
limit	QUERY	Optional	Number	text/plain	Optional. The number of records to return. The default value is 20.
offset	QUERY	Optional	Number	text/plain	Optional. The offset value. This indicates to retrieve values starting from the offset value rather than from the beginning of the reference table. The default value is 0.

Table 630. GET /referencedata/tables/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table has been retrieved.

Table 630. GET /referencedata/tables/{name} response codes (continued).

HTTP Response Code	Unique Code	Description
404	1002	The reference table does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the reference table.

## Response Description

The reference table identified by the name specified in the request. The portion of the reference table's data returned is dependent on the limit and offset specified in the request.

## Response Sample

```
{
  "name": "String",
  "elementType": "ALN",
  "createdTime": 1398888888888,
  "timeoutType": "LAST_SEEN",
  "timeToLive": "0 years 1 mons 0 days 0 hours 0 mins 0.00 secs",
  "keyLabel": "String",
  "numberOfElements": 6,
  "keyNameTypes": {
    "String1": "ALN",
    "String2": "ALN",
    "String3": "ALN"
  },
  "data": {
    "String2": {
      "String1": {
        "value": "String",
        "source": "String",
        "firstSeen": 1398888888888,
        "lastSeen": 1398888888888
      }
    },
    "String3": {
      "String1": {
        "value": "String",
        "source": "String",
        "firstSeen": 1398888888888,
        "lastSeen": 1398888888888
      },
      "String2": {
        "value": "String",
        "source": "String",
        "firstSeen": 1398888888888,
        "lastSeen": 1398888888888
      }
    },
    "String1": {
      "String1": {
        "value": "String",
        "source": "String",
        "firstSeen": 1398888888888,
        "lastSeen": 1398888888888
      },
      "String2": {
```

```

    "value": "String",
    "source": "String",
    "firstSeen": 1398888888888,
    "lastSeen": 1398888888888
  },
  "String3": {
    "value": "String",
    "source": "String",
    "firstSeen": 1398888888888,
    "lastSeen": 1398888888888
  }
}
}
}

```

## POST /referencedata/tables/{name}

Add or update an element in a reference table. The value to be added must be of the appropriate type: either the type that corresponds to the innerKey predefined for the reference table, or the default elementType of the reference table.

Table 631. POST /referencedata/tables/{name} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 632. POST /referencedata/tables/{name} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to add or update an element in.
outerKey	QUERY	Required	String	text/plain	Required. The outer key for the element to add or update.
innerKey	QUERY	Required	String	text/plain	Required. The inner key for the element to add or update.
value	QUERY	Required	String	text/plain	Required. The value to add or update in the reference table. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.
source	QUERY	Optional	String	text/plain	Optional. An indication of where the data originated. The default value is reference data api.

Table 633. *POST /referencedata/tables/{name}* response codes.

HTTP Response Code	Unique Code	Description
200		The reference table has had an element added or updated.
404	1002	The reference table does not exist.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to add or update data in the reference table.

## Response Description

Information about the reference table that had an element added or updated. This returns information about the reference table but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1397773789254,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "keyLabel": "String",
  "numberOfElements": 5,
  "keyNameTypes": {
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  }
}
```

## DELETE /referencedata/tables/{name}

Remove a reference table or purge its contents.

Table 634. *DELETE /referencedata/tables/{name}* resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 635. *DELETE /referencedata/tables/{name}* request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to remove or purge



Table 635. DELETE /referencedata/tables/{name} request parameter details (continued).

Parameter	Type	Optionality	Data Type	MIME Type	Description
purgeOnly	QUERY	Optional	String	text/plain	Optional. The allowed values are "false" or "true". The default value is false. This indicates if the reference table should have its contents purged (true), keeping the reference table structure. If the value is "false" or not specified the reference table will be removed completely.

Table 636. DELETE /referencedata/tables/{name} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table has had its contents purged.
204		The reference table has been removed.
422	1005	A request parameter is not valid.
404	1002	The reference table does not exist.
500	1020	An error occurred while attempting to remove or purge values from the reference table.

## Response Description

If the table was removed nothing is returned, otherwise information about the reference table that had its contents purged is returned.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1397773789254,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "key1Label": "String",
  "numberOfElements": 0,
  "keyNameTypes": {
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  }
}
```

## DELETE /referencedata/tables/{name}/{outerKey}/{innerKey}

Remove a value from a reference table.

Table 637. DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

Table 638. DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
name	PATH	Required	String	text/plain	Required. The name of the reference table to remove a value from
outerKey	PATH	Required	String	text/plain	Required. The outer key of the value to remove
innerKey	PATH	Required	String	text/plain	Required. The inner key of the value to remove
value	QUERY	Required	String	text/plain	Required. The value to remove from the reference table. Note: Date values must be represented in milliseconds since the Unix Epoch January 1st 1970.

Table 639. DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes.

HTTP Response Code	Unique Code	Description
200		The reference table had had a value removed.
422	1005	A request parameter is not valid.
404	1002	The reference table does not exist.
404	1003	The record does not exist in the reference table.
500	1020	An error occurred while attempting to remove the reference table value.

## Response Description

Information about the reference table that had an element removed. This returns information about table but not the contained data.

## Response Sample

```
{
  "name": "String",
  "elementType": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
  "createdTime": 1397773789254,
  "timeoutType": "String <one of: UNKNOWN, FIRST_SEEN, LAST_SEEN>",
  "timeToLive": "1 years 1 mons 1 days 1 hours 1 mins 1.11 secs",
  "key1Label": "String",
  "numberOfElements": 5,
  "keyNameTypes": {
    "String3": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String1": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>",
    "String2": "String <one of: ALN, NUM, IP, PORT, ALNIC, DATE>"
  }
}
```

## Scanner endpoints

Use the following references for REST API V0.1 scanner endpoints.

### GET /scanner/profiles

Retrieves all of the currently created scan profiles.

No parameters are required and the following information should be retrieved for each scan profile:

- scanProfileId
- scanProfileName
- description
- scanType
- scannerName

Table 640. GET /scanner/profiles resource details.

Stability	MIME Type
EXPERIMENTAL	application/json

There are no parameters for this endpoint.

Table 641. GET /scanner/profiles response codes.

HTTP Response Code	Unique Code	Description
200		The list of scan profiles was successfully returned.
500	1030	Occurs when an attempt is made to list scan profiles when certain conditions are not met, or when too many scan requests have been made.

## Response Description

The list of scan profiles currently configured in QRadar Vulnerability Manager.

## Response Sample

### POST /scanner/profiles/create

Initiates a request to create a new scanProfile.

The request takes one parameter - createScanRequest, which is just a POJO. To create the scan, you will need to build up a JSON object that contains the Scan Profile name and hosts to scan, for example, {'name':'New Scan Profile', 'ips':['10.100.85.135']}

Table 642. POST /scanner/profiles/create resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 643. POST /scanner/profiles/create request body details.

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	JSON	application/json		

Table 644. POST /scanner/profiles/create response codes.

HTTP Response Code	Unique Code	Description
200		The scan has been successfully created.
419	9101	Occurs when a parameter is missing or invalid.
500	1030	Occurs when an attempt is made to create a scan when certain conditions are not met, or when too many scan requests have been made.

## Response Description

An indicator of whether the scan has been created successfully or not.

## Response Sample

String

## POST /scanner/profiles/start

Initiates a request to start an already created scanProfile.

The request takes one parameter: the **scanProfileId** parameter. To get a list of scanProfileIds, get a list of the current scan profiles by initiating a profiles request on the scanner endpoint. The **scanProfileId** parameter is validated and an appropriate message is returned.

Table 645. POST /scanner/profiles/start resource details.

Stability	MIME Type
EXPERIMENTAL	text/plain

Table 646. POST /scanner/profiles/start request parameter details.

Parameter	Type	Optionality	Data Type	MIME Type	Description
scanProfileId	QUERY	Required	String	text/plain	The unique id of the scan profile we want to start,

Table 647. *POST /scanner/profiles/start* response codes.

HTTP Response Code	Unique Code	Description
200		The scan has been successfully started,
403	1000	Occurs if the user does not have permission to start a scan, or the scan is in progress,
500	1030	Occurs when an attempt is made to start a scan when certain conditions are not met, or when too many scan requests have been made.

### Response Description

An indicator of whether the scan has been started successfully or not.

### Response Sample

String



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