



Extreme Networks Security API Reference Guide

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About this guide

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

Intended audience

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

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, misappropriated or misused or can result in damage to or misuse of your systems, including for use in attacks on others. No IT system or product should be considered completely secure and no single product, service or security measure can be completely effective in preventing improper use or access. Extreme Networks® systems, products and services are designed to be part of a lawful comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products or services to be most effective. EXTREME NETWORKS DOES NOT WARRANT THAT ANY SYSTEMS, PRODUCTS OR SERVICES ARE IMMUNE FROM, OR WILL MAKE YOUR ENTERPRISE IMMUNE FROM, THE MALICIOUS OR ILLEGAL CONDUCT OF ANY PARTY.

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Conventions

This section discusses the conventions used in this guide.

Text Conventions

The following tables list text conventions that are used throughout this guide.

Table 1: Notice Icons





Icon	Notice Type	Alerts you to...
	Note	Important features or instructions.
	Caution	Risk of personal injury, system damage, or loss of data.
	Warning	Risk of severe personal injury.
	New	This command or section is new for this release.

Table 2: Text Conventions

Convention	Description
Screen displays	This typeface indicates command syntax, or represents information as it appears on the screen.
The words enter and type	When you see the word “enter” in this guide, you must type something, and then press the Return or Enter key. Do not press the Return or Enter key when an instruction simply says “type.”
[Key] names	Key names are written with brackets, such as [Return] or [Esc]. If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: Press [Ctrl]+[Alt]+[Del]
Words in <i>italicized type</i>	Italics emphasize a point or denote new terms at the place where they are defined in the text. Italics are also used when referring to publication titles.

Terminology

When features, functionality, or operation is specific to a switch family, the family name is used. Explanations about features and operations that are the same across all product families simply refer to the product as the “switch.”

Providing Feedback to Us

We are always striving to improve our documentation and help you work better, so we want to hear from you! We welcome all feedback but especially want to know about:

- Content errors or confusing or conflicting information.
- Ideas for improvements to our documentation so you can find the information you need faster.
- Broken links or usability issues.

If you would like to provide feedback to the Extreme Networks Information Development team about this document, please contact us using our short [online feedback form](#). You can also email us directly at InternalInfoDev@extremenetworks.com.

Getting Help

If you require assistance, contact Extreme Networks Global Technical Assistance Center using one of the following methods:

Web	www.extremenetworks.com/support
Phone	1-800-872-8440 (toll-free in U.S. and Canada) or 1-603-952-5000 For the Extreme Networks support phone number in your country: www.extremenetworks.com/support/contact
Email	support@extremenetworks.com To expedite your message, enter the product name or model number in the subject line.

Before contacting Extreme Networks for technical support, have the following information ready:

- Your Extreme Networks service contract number
- A description of the failure
- A description of any action(s) already taken to resolve the problem (for example, changing mode switches or rebooting the unit)
- The serial and revision numbers of all involved Extreme Networks products in the network
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load and frame size at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any previous Return Material Authorization (RMA) numbers

Related Publications

The Extreme Security product documentation listed below can be downloaded from <http://documentation.extremenetworks.com>.

Extreme Security Analytics Threat Protection

- *Extreme Networks Security API Reference Guide*
- *Extreme Networks Security Application Configuration Guide*
- *Extreme Networks Security Ariel Query Language Guide*
- *Extreme Networks Security DSM Configuration Guide*
- *Extreme Security DSM Configuration Guide Addendum*
- *Extreme Networks Security Hardware Guide*
- *Extreme Networks Security Installation Guide*
- *Extreme Networks Security Juniper NSM Plug-in User Guide*
- *Extreme Networks Security Log Manager Administration Guide*
- *Extreme Networks Security Log Sources User Guide*
- *Extreme Networks Security Managing Log Sources Guide*
- *Extreme Networks Security Offboard Storage Guide*
- *Extreme Security Release Notes*

- *Extreme Networks Security Risk Manager Adapter Configuration Guide*
- *Extreme Networks Security Risk Manager Getting Started Guide*
- *Extreme Networks Security Risk Manager Installation Guide*
- *Extreme Networks Security Risk Manager Migration Guide*
- *Extreme Networks Security Risk Manager User Guide*
- *Extreme Networks Security Troubleshooting System Notifications Guide*
- *Extreme Networks Security Upgrade Guide*
- *Extreme Networks Security Vulnerability Manager Release Notes*
- *Extreme Networks Security Vulnerability Manager User Guide*
- *Extreme Networks Security WinCollect User Guide*
- *Extreme Networks SIEM Administration Guide*
- *Extreme Networks SIEM Getting Started Guide*
- *Extreme Networks SIEM High Availability Guide*
- *Extreme Networks SIEM Troubleshooting Guide*
- *Extreme Networks SIEM Tuning Guide*
- *Extreme Networks SIEM Users Guide*
- *Migrating Extreme Security Log Manager to Extreme SIEM*

Extreme Security Threat Protection

- *Extreme Security Intrusion Prevention System Hardware Replacement Guide*
- *Extreme Security Threat Protection Release Notes*

1 What's new for developers in RESTful APIs in Extreme Security V7.2.5

What's new in RESTful APIs in Extreme Security V7.2.5 in detail

Extreme Networks Security Analytics V7.2.5 introduces V3.1 and V4.0 of the API endpoints.

Stability of API endpoints

Extreme Security V7.2.5 makes all API endpoints stable. There are no longer any experimental API endpoints. All of the API endpoints in this reference guide are stable and fully supported.

API permissions changes

Extreme Security V7.2.5 introduces a range of API permission changes. Users and service tokens on upgraded systems might not be able to make API calls until their permissions are adjusted by an administrator. [Learn more...](#)

Updated interactive API documentation for developers

The interactive API documentation user interface is updated. [Learn more...](#)

Allowed origins whitelist

You can now manage a list of origins that have permissions to make cross-domain API calls to your server. [Learn more...](#)

Endpoints with resolved issues

Extreme Security V7.2.5 resolves a range of issues with the following endpoints:

- `/api/ariel/searches`
- `/api/asset_model/*`
- `/api/scanner/*`
- `/api/qvm/*`
- All DELETE endpoints

[Learn more...](#)

Updated endpoints

Extreme Security V7.2.5 contains updates to the following endpoints:

- v3.1 GET /api/siem/offenses
- v3.1 GET /api/siem/offenses/{offense_id}
- v3.1 POST /api/siem/offenses/{offense_id}
- v4.0 POST /api/ariel/searches
- v2.0 DELETE /api/ariel/searches/{search_id}

 [Learn more...](#)


New endpoints

Extreme SecurityV7.2.5 introduces several new endpoints:

- v3.1 GET /api/siem/source_addresses
- v3.1 GET /api/siem/source_addresses/{source_address_id}
- v3.1 GET /api/siem/local_destination_addresses
- v3.1 GET /api/siem/local_destination_addresses/{local_destination_address_id}

 [Learn more...](#)

Deprecated endpoints

All version 0.1, 0.2, and 1.0 API endpoints are marked as deprecated in Extreme SecurityV7.2.5.  [Learn more...](#)

What's new in RESTful APIs in Extreme Security V7.2.5 in detail

API permissions changes

Extreme SecurityV7.2.5 updates API permissions to better align with permissions required for similar functions in the UI. API-specific permissions are removed from the user role screen. If you upgrade your system from V7.2.4 to V7.2.5, systems that have user roles with API permissions undergo a data migration. Existing users and tokens that use these roles might not be able to access previously available API resources until their permissions are updated by an administrator.

User roles with API-specific permissions and users and authorized service tokens that are assigned user roles with API-specific permissions undergo data migration.

User roles that only have API permissions are removed from the system. Users that are assigned these roles are assigned the "disabled" role. Authorized service tokens that have these roles are removed.

API-specific permissions are removed from user roles that have multiple permissions. Users and authorized service tokens that are associated with these roles are maintained but reported on as their role's permissions are changed.

A confirmation message is displayed during upgrade that indicates the user roles, users, and authorized service tokens affected. Before the upgrade to V7.2.5 can occur, you must agree to the data migration changes outlined in the pre-check message. For details about the data migration on your system, see the /root/permissions_changes.txt file.

For more information about the required roles and security profiles for each API endpoint, see the [Table 3: Role permissions and security profile requirements](#) on page 14 table.

In addition to the permissions that are outlined in the [Table 3: Role permissions and security profile requirements](#) on page 14, any user or token with **Admin Manager** permissions can access any API endpoint. You can use the interactive API documentation page to see the API documentation for all endpoints. You receive an error response if an API request is made without the appropriate permissions.

For more information about user and token configurations, see the *Extreme Networks SIEM Administration Guide*.

Updated interactive API documentation for developers

The interactive API documentation page, https://YourHost/api_doc, is updated to provide improved access to the API endpoints and their documentation. The previous interactive API documentation page is deprecated and might be removed in a future release.

The **Try it out!** button for each endpoint sends a real API request to *YourHost* with the parameters specified in the interactive API documentation page. Do not use this option on a production system as it can affect your system data.

Allowed origins whitelist

In Extreme Security V7.2.5, you can manage a list of origins that have permissions to make cross-domain API calls to your server. You can add your origin to a whitelist on the console in the `/opt/gradar/webapps/console/restapi/allowed_origins.list` file. Changes to the file are detected and take effect immediately. This file contains a newline separated list of allowed origins. Each entry is tested against the Origin header that is sent by browsers during pre-flight requests. If an entry matches the origin (or any entry is `*`), the browser can make cross origin resource sharing requests.

For more information, see [Cross-origin resource sharing](#) on page 15.

Endpoints with resolved issues

Release 7.2.5 resolves the following endpoint issues:

- `DELETE /api/ariel/searches` - all versions

You can now delete searches that contain errors.

- `GET /api/qvm/assets` - all versions

Requests to use this endpoint when parameters are not specified no longer result in an exception that is logged by the Extreme Security Console.

- `GET /api/scanner/profiles` - all versions

Requests that use this endpoint no longer return an HTTP 500 error response when no scan profiles exist in the system. This endpoint now correctly returns an HTTP 200 successful response with an empty array as the JSON body.

This endpoint no longer return an HTTP 500 error response when a Extreme Security Vulnerability Manager processor is not deployed. This endpoint now correctly returns an HTTP 200 successful response with an empty array as the JSON body.

- `GET /api/qvm/assets`, `GET /api/qvm/network`, `GET /api/qvm/openservices`, `GET /api/qvm/vulninstances`, and `GET /api/qvm/vulns` - all versions

An 420 error response code is now correctly returned when requests are made through these endpoints that have invalid `savedSearchId` parameters.

- `GET /api/asset_model/saved_searches/{saved_search_id}/results` - all versions

This endpoint returns a list of assets that match the search criteria that is specified in the `{saved_search_id}` property. Results include assets to which the API user's security profile grants access only. To be returned in the list, the domain of an asset must match a domain in the user's security profile. The asset must have at least one IP address that matches the networks that are defined in the API user's security profile. Assets without IP address are also returned.

- `POST /api/asset_model/assets/{asset_id}` - all versions

To update an asset, the API user must now have permission for the domain of the asset. The permission is granted by the API user's security profile. The IP address of JSON objects that are provided in the `ip_addresses` property must all match a network that defined in the client security profile. Domain values that are specified in the `domainID` property are ignored. Asset domains are not editable.

- `GET /api/asset_model/assets` - all versions

This endpoint returns only the assets that the current API user's security profile permits. To be returned in the list, a domain of the asset must match a domain that is specified by the API user's security profile. The asset must have at least one IP address that matches the networks that are defined in the API user's security profile. Assets that do not have an IP address are also returned.

- `GET /api/ariel/database/{database_name}` - all versions

You can now specify only a database that you have access to.

- `GET /api/ariel/databases` - all versions

The results now include only the databases that you have access to.

- `GET /api/scanner/profiles/create` - all versions

An 419 error response code is now returned when new scan profile names are specified which begin with reserved words 'CRE' and 'RC'.

- The successful HTTP 204 response code that is returned by all versions of DELETE endpoints no longer contains a message body.

Updated endpoints

Release 7.2.5 contains updates to the following endpoints:

- 4.0 `POST /api/ariel/searches`

The `search_id` parameter is removed. A custom `search_id` can be requested by including the **INTO** keyword in the `query_expression` parameter, for example, `'SELECT startTime FROM events INTO test'`.

- 4.0 DELETE /api/ariel/searches/{search_id}

This endpoint returns response code 202 instead of 204 upon a successful delete request. This response code indicates that the search might not be deleted immediately and that the processing of the request might take some time. The response body contains details about the deleted search.

- 3.1 GET /api/siem/offenses, 3.1 GET /api/siem/offenses/{offense_id}, and 3.1 POST /api/siem/offenses/{offense_id}

The offense resource that is returned by these endpoints is updated to add the following fields:

- domain_id
- source_address_ids
- local_destination_address_ids

New endpoints

7.2.5 introduces the following new endpoints:

- 3.1 GET /api/siem/source_addresses

Returns a list of offense source addresses.

- 3.1 GET /api/siem/source_addresses/{source_address_id}

Returns a single offense source address that is based on the ID provided.

- 3.1 GET /api/siem/local_destination_addresses

Returns a list of offense destination addresses.

- 3.1 GET /api/siem/local_destination_addresses/{local_destination_address_id}

Returns a single offense destination address that is based on the ID provided.

Deprecated endpoints

All version 0.1, 0.2, and 1.0 API endpoints are marked as deprecated in Extreme Security V7.2.5. Deprecation details are outlined in the [Getting Started](#) section. Although deprecated endpoints continue to function, they will be removed in a future release and you must update your integrations to use version 4.0. Responses to deprecated endpoint requests include a **Deprecated** response header that indicates that the endpoint is deprecated.

2 RESTful API overview

Cross-origin resource sharing

You can access the RESTful API by sending HTTPS requests to specific URLs (endpoints) on the Extreme Security 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 must be included in every API request as an HTTP header. Provide the required access credentials in the following ways:

- A user name and password for a Extreme Security user that is specified in the Authorization header.

The user name and password must be specified by using HTTP basic authentication. Although API requests can be made by providing a user name and password for every request, use authorized service tokens for all API integrations with Extreme Security. Only the user name and password option is supported for viewing the Documentation Page.

For more information about creating user roles, security profiles, and users, see the *Extreme Networks SIEM Administration Guide*.

- An authorized services token that is specified in the SEC header.

To authenticate as an authorized service, you must create an authentication token that uses authorized services. Extreme Security authorized services have roles and security profiles assigned that control access to the various API resources.

The token is valid until the expiry date that you specified when the authorized service was created.

For more information about creating user roles, security profiles and authorized services, see the *Extreme Networks SIEM Administration Guide*.

The following table highlights the required role and the security profile impacts for each API endpoint:

Table 3: Role permissions and security profile requirements

API Endpoints	Roles Permissions	Security Profile
/api/ariel/*	Requires Admin permission for querying events or flows.	Requires security profile with access to all networks, all log sources, and all domains.
/api/asset_model/*	Requires Vulnerability Management or Assets permissions.	Data returned restricted based on security profile assigned.
/api/auth/*	No permission restrictions.	No security profile restrictions.
/api/help/*	No permission restrictions.	No security profile restrictions.
/api/qvm/*	Requires Vulnerability Management or Assets permissions.	Requires security profile with access to all networks, all log sources, and all domains.
/api/reference_data/*	Requires Admin permissions.	No security profile restrictions.
/api/scanner/*	Requires Vulnerability Management permissions.	Requires security profile with access to all networks, all log sources, and all domains.
/api/siem/*	Requires Offenses permissions. The Manage Offense Closing Reasons permission is required for creating offense closing reasons (<i>POST /api/siem/offense_closing_reasons</i>). The Assign Offenses to Users permission is required for updating the assigned to field of an offense (<i>POST /api/siem/offenses/{offense_id}</i> when the <i>assigned_to</i> parameter is supplied).	Data returned restricted based on security profile assigned.

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 [GitHub](https://github.com/ibm-security-intelligence/api-samples) (https://github.com/ibm-security-intelligence/api-samples).

Version headers

You use version headers to request a specific version of the API. If you don't provide a version header, the latest version of the API is used, which might break integrations when Extreme Security is upgraded. If you provide a version header every time you use an API, it makes it easier to upgrade to newer versions of Extreme Security without breaking your API clients.

The APIs use the major and minor components of semantic versioning. Natural numbers are used to designate major versions of the API, for example, '3'. Minor versions of the API are designated with a major and minor component, for example, '3.1'. You can set the version header to a major or a minor version of the API. Changes that are compatible with existing versions are introduced with an incremented minor version number. Any incompatible changes are introduced with a major version number increment.

When a major version of the API is specified in the version header without a minor component, the server responds with the latest minor version within the major API version. For example, if the client requests version '3', the server responds with version '3.1'. If you want to use version 3.0, you must request '3.0' in the version header. If you request a version greater than the latest version of an endpoint, the latest available version of that endpoint is returned. Each endpoint is listed under every version it is valid for, even if it's unchanged in the newer versions.

Endpoint deprecation

An API endpoint is marked as *deprecated* to indicate that it is not recommended for use and will be removed in a future release. To give integrations time to use an alternative, a deprecated endpoint continues to function for 2 releases before it is removed. The interactive API documentation page indicates that an endpoint is marked as deprecated. Also, the API response message for a deprecated endpoint includes the header `Deprecated`. An individual API endpoint, or an entire version of API endpoints can be marked as deprecated. The deprecated endpoints still continue to function until they are removed.

When an API endpoint completes the deprecation process, it is removed. Endpoints that are removed no longer respond successfully. An attempt to call a removed endpoint returns an error. An `HTTP 410 Gone` response is returned for individual removed endpoints. An `HTTP 422 Unprocessable Entity` response is returned for requests for a version that is no longer supported.

Include the version header in API requests to call a specific version of an API endpoint. API integrations that do not explicitly request a particular version are not supported. If you do not specify a version, your request is directed to the latest available version. If a release includes a new, incompatible version of an endpoint, your integration might break. Have your request version in one location in your code to ease upgrading as newer versions become available.

Cross-origin resource sharing

Cross-origin resource sharing (CORS) occurs when a script on one server sends an Ajax request to another server. Cross-origin resource sharing also occurs when a request is sent on a different protocol or port to the same server.

Cross-origin resource sharing violates the 'same origin policy', which is in place to prevent cross-site request forgery attacks. While the global prevention of cookies for `/api/*` endpoints avoids these attacks, browsers still attempt to enforce this policy. All browsers use this convention but it does not apply to manual request mechanisms like cURL.

Browsers detect that you are attempting to make a request to a server, and initially send a preflight request. Preflight requests are set as an `OPTION` request against the same URL, but also contain the `Origin` header. The server must send back other information such as allowed request types, whether to expect headers in the actual request's response, and whether the origin is accepted.

If the 'Access-Control-Allow-Origin' header of the response of the preflight request does not match the Origin header of the request, the browser rejects it. If the 'Access-Control-Allow-Origin' header matches, the browser proceeds with the request. The request's response must pass the same origin check, in case the rule changes between the preflight and actual request.

Management of allowed origins

The origin value that is sent by your browser contains the protocol followed by the host name and port, for example:

```
http://1.2.3.4:8888
```

You can intercept requests sent by your browser to ensure that you have the correct origin value. You can add your origin to a whitelist on the Extreme Security Console in the `/opt/qradar/webapps/console/restapi/allowed_origins.list` file. Changes are detected and take effect immediately. This file contains a newline separated list of allowed origins. Each entry is tested against the origin header that is sent by browsers during pre-flight requests. If an entry matches the origin (or any entry is `'*'`), the browser is allowed to make cross-origin resource sharing requests.

A common browser convention is to send `null` as the origin when the script is started from `file://` by adding `'*'` to the whitelist. This practice allows all origins and is not a good practice.

3 API command-line client

Use the API command-line client to make API calls when logged in to the Extreme Networks Security Analytics host as the root user. The API command-line client is experimental and will stabilize over future Extreme Security 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 4: Arguments for basic calls

Argument	Definition
<code>--api /api_name/endpoint</code>	The path to your API endpoint. This path appends to <code>https://ConsoleIPAddress/</code> . For example: <code>https://ConsoleIPAddress/api/referencedata/sets/</code>
<code>--method METHOD</code>	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/gradar/bin/api_client --api /ariel/databases --method GET --hostnameIP
address
```

Stored tokens authorization

Inputting and storing

You can generate an authorization token on the Extreme Security 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/gradar/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.

4 Accessing the interactive API documentation page

Use the interactive API documentation page to access technical details for the RESTful APIs and experiment with making API requests to your server.

The API documentation user interface provides descriptions and the ability to use the following REST API interfaces:

Table 5: REST API interfaces

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

- 1 To access the interactive API documentation interface, enter the following URL in your web browser: `https://ConsoleIPAddress/api_doc/`.
- 2 Click the arrow icon beside the API version you want to use.
4.0 is the latest version for Extreme SecurityV7.2.5.
- 3 Go to the endpoint that you want to access.
- 4 Read the endpoint documentation and complete the request parameters.
- 5 Click **Try it out** to send the API request to your console and receive a properly formatted HTTPS response.



Note

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

- 6 Review and gather the information that you need to integrate with Extreme Security.



5 REST API V4.0 References

Ariel endpoints
Asset model endpoints
Authentication endpoints
Help endpoints
Vulnerability Manager endpoints
Reference data endpoints
Scanner endpoints
SIEM endpoints

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

Ariel endpoints

Use the references for REST API V4 Ariel endpoints.

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.

GET /ariel/databases/{database_name} resource details

Table 6: GET /ariel/databases/{database_name} resource details

MIME Type
application/json

GET /ariel/databases/{database_name} request parameter details

Table 7: 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 that contains the columns that you want to retrieve.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

Table 7: GET /ariel/databases/{database_name} request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /ariel/databases/{database_name} response codes

Table 8: 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 that the column is indexable.

Response Sample

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

GET /ariel/databases

Retrieve Ariel database names

Retrieve a list of available Ariel databases.

GET /ariel/databases resource details

Table 9: GET /ariel/databases resource details

MIME Type
application/json

GET /ariel/databases request parameter details

Table 10: GET /ariel/databases request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

GET /ariel/databases response codes

Table 11: 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 available Ariel databases.

Response Sample

```
[
  "String"
]
```

GET /ariel/searches

Retrieve Ariel search_ids.

Retrieve the list of Ariel searches. This includes search_ids for completed and active searches.

GET /ariel/searches resource details

Table 12: GET /ariel/searches resource details

MIME Type
application/json

GET /ariel/searches request parameter details

Table 13: GET /ariel/searches request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

GET /ariel/searches response codes

Table 14: 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 search IDs.

Response Sample

```
[
  "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 specifying them as part of the query expression. For further information, see the AQL reference.

POST /ariel/searches resource details

Table 15: POST /ariel/searches resource details

MIME Type
application/json

POST /ariel/searches request parameter details

Table 16: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /ariel/searches response codes

Table 17: POST /ariel/searches response codes

HTTP Response Code	Unique Code	Description
201		A new Ariel search was successfully created.
409	1004	The search could not be created, the requested search ID provided in the query_expression is already in use. Please use a unique search ID (or allow one to be generated).
422	2000	The query_expression contains invalid AQL syntax.
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

```
{
  "compressed_data_file_count": 42,
  "compressed_data_total_size": 42,
  "cursor_id": "String",
  "data_file_count": 42,
  "data_total_size": 42,
  "desired_retention_time_msec": 42,
  "error_messages": [
    {
      "code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
        ERROR_READ_TIMEOUT,
```

```

ERROR_INVALID_QUERY_PARAMS,
WARN_QUERY_TIME_LIMIT,
ERROR_GENERAL_FAILURE,
ERROR_FILE_RUNTIME_EXCEPTION,
ERROR_INVALID_QUERY,
WARN_CANCEL,
INFO_INVALID_SORTING,
ERROR_FETCH,
WARN_SHARING_VIOLATION,
WARN_INCOMPLETE_RESULT,
ERROR_QUERY_EXPIRED,
INFO_MAINTENANCE,
ERROR_COULD_NOT_CONNECT,
ERROR_RB_COMMUNICATION,
ERROR_RB_SOURCE_DATABLOCK_SEND,
ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
NEXUS_ERROR> ",
    "contexts": [
        "String"
    ],
    "message": "String",
    "severity": "String <one of: INFO, WARN, ERROR>"
}
],
"index_file_count": 42,
"index_total_size": 42,
"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.

DELETE /ariel/searches/{search_id} resource details

Table 18: DELETE /ariel/searches/{search_id} resource details

MIME Type
application/json

DELETE /ariel/searches/{search_id} request parameter details

Table 19: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /ariel/searches/{search_id} response codes

Table 20: DELETE /ariel/searches/{search_id} response codes

HTTP Response Code	Unique Code	Description
202		The delete request has been accepted.
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

Information about the deleted search.

Response Sample

```
{
  "compressed_data_file_count": 42,
  "compressed_data_total_size": 42,
  "cursor_id": "String",
  "data_file_count": 42,
  "data_total_size": 42,
  "desired_retention_time_msec": 42,
  "error_messages": [
    {
      "code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
        ERROR_READ_TIMEOUT,
        ERROR_INVALID_QUERY_PARAMS,
        WARN_QUERY_TIME_LIMIT,
        ERROR_GENERAL_FAILURE,
        ERROR_FILE_RUNTIME_EXCEPTION,
```

```

ERROR_INVALID_QUERY,
WARN_CANCEL,
INFO_INVALID_SORTING,
ERROR_FETCH,
WARN_SHARING_VIOLATION,
WARN_INCOMPLETE_RESULT,
ERROR_QUERY_EXPIRED,
INFO_MAINTENANCE,
ERROR_COULD_NOT_CONNECT,
ERROR_RB_COMMUNICATION,
ERROR_RB_SOURCE_DATABLOCK_SEND,
ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
NEXUS_ERROR>"

    "contexts": [
        "String"
    ],
    "message": "String",
    "severity": "String <one of: INFO, WARN, ERROR>"
}
],
"index_file_count": 42,
"index_total_size": 42,
"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 an 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 in progress or is complete.

GET /ariel/searches/{search_id} resource details

Table 21: GET /ariel/searches/{search_id} resource details

MIME Type
application/json

GET /ariel/searches/{search_id} request parameter details

Table 22: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /ariel/searches/{search_id} response codes

Table 23: 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 the search status.

Response Sample

```
{
  "compressed_data_file_count": 42,
  "compressed_data_total_size": 42,
  "cursor_id": "String",
  "data_file_count": 42,
  "data_total_size": 42,
  "desired_retention_time_msec": 42,
  "error_messages": [
    {
      "code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
        ERROR_READ_TIMEOUT,
        ERROR_INVALID_QUERY_PARAMS,
        WARN_QUERY_TIME_LIMIT,
        ERROR_GENERAL_FAILURE,
```

```

ERROR_FILE_RUNTIME_EXCEPTION,
ERROR_INVALID_QUERY,
WARN_CANCEL,
INFO_INVALID_SORTING, ERROR_FETCH,
WARN_SHARING_VIOLATION,
WARN_INCOMPLETE_RESULT,
ERROR_QUERY_EXPIRED,
INFO_MAINTENANCE,
ERROR_COULD_NOT_CONNECT,
ERROR_RB_COMMUNICATION,
ERROR_RB_SOURCE_DATABLOCK_SEND,
ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
NEXUS_ERROR> ",

    "contexts": [
        "String"
    ],
    "message": "String",
    "severity": "String <one of: INFO, WARN, ERROR>"
}
],
"index_file_count": 42,
"index_total_size": 42,
"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.

Update details for an Ariel search. You can update searches in the following ways:

- To cancel an active search, set 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 by using the DELETE /searches/{search_id} endpoint.



Note

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

POST /ariel/searches/{search_id} resource details

Table 24: POST /ariel/searches/{search_id} resource details

MIME Type
application/json

POST /ariel/searches/{search_id} request parameter details

Table 25: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /ariel/searches/{search_id} response codes

Table 26: 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.
409	1008	The current status of the search prevented the search results from being saved.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to update the search.

Response Description

Information about the specified search that was updated.

Response Sample

```

{
  "compressed_data_file_count": 42,
  "compressed_data_total_size": 42,
  "cursor_id": "String",
  "data_file_count": 42,
  "data_total_size": 42,
  "desired_retention_time_msec": 42,
  "error_messages": [
    {
      "code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
        ERROR_READ_TIMEOUT,
        ERROR_INVALID_QUERY_PARAMS,
        WARN_QUERY_TIME_LIMIT,
        ERROR_GENERAL_FAILURE,
        ERROR_FILE_RUNTIME_EXCEPTION,
        ERROR_INVALID_QUERY,
        WARN_CANCEL,
        INFO_INVALID_SORTING,
        ERROR_FETCH,
        WARN_SHARING_VIOLATION,
        WARN_INCOMPLETE_RESULT,
        ERROR_QUERY_EXPIRED,
        INFO_MAINTENANCE,
        ERROR_COULD_NOT_CONNECT,
        ERROR_RB_COMMUNICATION,
        ERROR_RB_SOURCE_DATABLOCK_SEND,
        ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
        NEXUS_ERROR>",
      "contexts": [
        "String"
      ],
      "message": "String",
      "severity": "String <one of: INFO, WARN, ERROR>"
    }
  ],
  "index_file_count": 42,
  "index_total_size": 42,
  "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}/results

Retrieves search results in the requested format.

Retrieve the results of the Ariel search that is identified by the search_id. The Accepts request header indicates the format of the result. 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, you can 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 might not be retrievable for searches that are created on the Console. The response samples are for the following query: Select sourceIP, destinationIP from events.

GET /ariel/searches/{search_id}/results resource details

Table 27: GET /ariel/searches/{search_id}/results resource details

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

GET /ariel/searches/{search_id}/results request parameter details

Table 28: 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 criteria for the returned results.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /ariel/searches/{search_id}/results response codes

Table 29: 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

```

{
  "events": [
    {
      "sourceIP": "1.1.1.1",
      "destinationIP": "127.0.0.1"
    },
    {
      "sourceIP": "1.1.1.1",
      "destinationIP": "127.0.0.1"
    }
  ]
}

```

Asset model endpoints

Use the references for REST API V4 Asset Model endpoints.

POST /asset_model/assets/{asset_id}

Update an asset with several pertinent pieces of information.

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.

POST /asset_model/assets/{asset_id} resource details

Table 30: POST /asset_model/assets/{asset_id} resource details

MIME Type
text/plain

POST /asset_model/assets/{asset_id} request parameter details

Table 31: 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.

POST /asset_model/assets/{asset_id} request body details

Table 32: POST /asset_model/assets/{asset_id} request body details

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

POST /asset_model/assets/{asset_id} response codes

Table 33: 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/assets

List all assets found in the model.

List all assets found in the model.

GET /asset_model/assets resource details

Table 34: GET /asset_model/assets resource details

MIME Type
application/json

GET /asset_model/assets request parameter details

Table 35: GET /asset_model/assets request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /asset_model/assets response codes

Table 36: 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,
  "domain_id": 42,
  "interfaces":
  [ {
    "first_seen_scanner": 42,
    "id": 42,
    "first_seen_profiler": 42,
    "created": 42,
    "last_seen_profiler": 42,
    "last_seen_scanner": 42,
    "mac_address": "String",
    "ip_addresses":
    [ {
      "first_seen_scanner": 42,
      "id": 42,
      "first_seen_profiler": 42,
```

```

        "created": 42,
        "network_id": 42,
        "value": "String",
        "last_seen_profiler": 42,
        "last_seen_scanner": 42,
        "type": "String"
    }
  ]
},
"properties":
[
  {
    "id": 42,
    "name": "String",
    "value": "String",
    "last_reported": 42,
    "type_id": 42,
    "last_reported_by": "String"
  }
]
}

```

GET /asset_model/properties

Get a list of available asset property types that can be used.

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

GET /asset_model/properties resource details

Table 37: GET /asset_model/properties resource details

MIME Type
application/json

GET /asset_model/properties request parameter details

Table 38: GET /asset_model/properties request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /asset_model/properties response codes

Table 39: 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.

Get a list of saved searches that can be used or applied against the `/asset_model/saved_searches/{saved_search_id}/results` query.

GET /asset_model/saved_searches resource details

Table 40: GET /asset_model/saved_searches resource details

MIME Type
application/json

GET /asset_model/saved_searches request parameter details

Table 41: GET /asset_model/saved_searches request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /asset_model/saved_searches response codes

Table 42: 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"
      }
    ],
    "description": "String",
    "filters": [
      {
        "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.

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

GET /asset_model/saved_searches/{saved_search_id}/results resource details

Table 43: GET /asset_model/saved_searches/{saved_search_id}/results resource details

MIME Type
application/json

GET /asset_model/saved_searches/{saved_search_id}/results request parameter details

Table 44: 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.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

Table 44: GET /asset_model/saved_searches/{saved_search_id}/results request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /asset_model/saved_searches/{saved_search_id}/results response codes

Table 45: 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

```
[
  {
    "domain_id": 42,
    "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 V4 authentication endpoints.

POST /auth/logout

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

POST /auth/logout resource details

Table 46: POST /auth/logout resource details

MIME Type
text/plain

There are no parameters for this endpoint.

POST /auth/logout response codes

Table 47: POST /auth/logout response codes

HTTP Response Code	Unique Code	Description
200		The session was invalidated.

Response Description

Returns true. Throws exception upon failure.

Response Sample

```
true
```

Help endpoints

Use the references for REST API V4 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

GET /help/capabilities resource details

Table 48: GET /help/capabilities resource details

MIME Type
application/json

GET /help/capabilities request parameter details

Table 49: GET /help/capabilities request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
categories	query	Optional	String[]	application/json	Restrict your search to this list of capabilities
paths	query	Optional	String[]	application/json	Restrict your search to these paths only
httpMethods	query	Optional	String[]	application/json	Restrict your search to these HTTP methods
version	query	Optional	String	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)
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /help/capabilities response codes

Table 50: GET /help/capabilities response codes

HTTP Response Code	Unique Code	Description
200		The API capabilities list was retrieved.
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 Description

Endpoints you are able to access, mapped against versions they belong to. If full content is not requested, values will be null.

Response Sample

```

{
  "categories": [
    {
      "apis": [
        {
          "httpMethod": "String <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": "String",
              "parameters": [
                {
                  "allowMultiple": true,
                  "defaultValue": "String",
                  "description": "String",
                  "name": "String",
                  "pathIndex": 42,
                  "required": true,
                  "source": "String",
                  "supportedContentTypes": [
                    {
                      "dataType": "String",
                      "mimeType": "String",
                      "sample": "String"
                    }
                  ]
                }
              ]
            }
          ],
          "removalTarget": "String",
          "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": "String",
    "visibility": "String"
    },
    ],
    "path": "String"
    },
    ],
    "path": "String"
    },
    ],
    "path": "String"
    }
}

```

Vulnerability Manager endpoints

Use the references for REST API V4 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

GET /qvm/assets resource details

Table 51: GET /qvm/assets resource details

MIME Type
application/json

GET /qvm/assets request parameter details

Table 52: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/assets response codes

Table 53: 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

Get a list of the allowable 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/openservice
- /qvm/networks

GET /qvm/filters resource details

Table 54: GET /qvm/filters resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /qvm/filters response codes

Table 55: 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.

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

GET /qvm/network resource details

Table 56: GET /qvm/network resource details

MIME Type
application/json

GET /qvm/network request parameter details

Table 57: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/network response codes

Table 58: 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 openservices present in the asset model.

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

GET /qvm/openservices resource details

Table 59: GET /qvm/openservices resource details

MIME Type
application/json

GET /qvm/openservices request parameter details

Table 60: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/openservices response codes

Table 61: 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 that can be used or applied against the following queries:

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

GET /qvm/savedsearches resource details

Table 62: GET /qvm/savedsearches resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /qvm/savedsearches response codes

Table 63: 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. Per saved search: id, name and list fo filters that make up this saved search

Response Sample

POST /qvm/tickets/assign

Update the remediation ticket for the assigned vulnerability.

Update the remediation ticket for the assigned vulnerability.

POST /qvm/tickets/assign resource details

Table 64: POST /qvm/tickets/assign resource details

MIME Type
application/json

POST /qvm/tickets/assign request body details

Table 65: POST /qvm/tickets/assign request body details

Parameter	Data Type	MIME Type	Description	Sample
ticket	TicketUpdate	application/json	'ticketId': required 'priority' one of required : Critical, Major, Minor, Warning, Informational 'status' one of required : Opened, Fixed, Re-Opened, Closed 'dueDate' Optional : yyyy-MM-dd HH:mm:ss 'assignedUser' required : valid Qradar user account name or a valid email 'comment' Optional : text 'commentUser' Optional : valid Qradar user account name, if not included will default current API user.	[{ "ticketId":"1000", "status":"Opened", "priority":"Critical", "dueDate":"2015-01-04 12:00:00", "assignedUser":"admin", "comment":"testComment", "commentUser":"admin" }]

POST /qvm/tickets/assign response codes

Table 66: 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.

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

GET /qvm/vulninstances resource details

Table 67: GET /qvm/vulninstances resource details

MIME Type
application/json

GET /qvm/vulninstances request parameter details

Table 68: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/vulninstances response codes

Table 69: 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 will contain all available RESTful resources

GET /qvm/vulns resource details

Table 70: GET /qvm/vulns resource details

MIME Type
application/json

GET /qvm/vulns request parameter details

Table 71: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/vulns response codes

Table 72: 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 V4 reference data endpoints.

GET /reference_data/map_of_sets

Retrieve a list of all reference map of sets.

Retrieve a list of all reference map of sets.

GET /reference_data/map_of_sets resource details

Table 73: GET /reference_data/map_of_sets resource details

MIME Type
application/json

GET /reference_data/map_of_sets request parameter details

Table 74: GET /reference_data/map_of_sets request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/map_of_sets response codes

Table 75: 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"
  }
]
```

DELETE /reference_data/map_of_sets/{name}

Remove a map of sets or purge its contents.

Remove a map of sets or purge its contents.

DELETE /reference_data/map_of_sets/{name} resource details

Table 76: DELETE /reference_data/map_of_sets/{name} resource details

MIME Type
application/json

DELETE /reference_data/map_of_sets/{name} request parameter details

Table 77: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/map_of_sets/{name} response codes

Table 78: 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
404	1002	The reference map of sets does not exist
409	1004	The reference map of sets could not be deleted, it is being used by other objects.

Table 78: DELETE /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 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"
}
```

GET /reference_data/map_of_sets/{name}

Return the reference map of sets identified by name.

Return the reference map of sets identified by **name**. If provided, **limit** specifies the number of records to return starting at record specified by **offset**. If not specified, then the first 20 records will be returned.

GET /reference_data/map_of_sets/{name} resource details

Table 79: GET /reference_data/map_of_sets/{name} resource details

MIME Type
application/json

GET /reference_data/map_of_sets/{name} request parameter details

Table 80: 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
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/map_of_sets/{name} response codes

Table 81: 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": {
    "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"
  }

```

DELETE /reference_data/map_of_sets/{name}/{key}

Remove a value from a reference map of sets.

Remove a value from a reference map of sets.

DELETE /reference_data/map_of_sets/{name}/{key} resource details

Table 82: DELETE /reference_data/map_of_sets/{name}/{key} resource details

MIME Type
application/json

DELETE /reference_data/map_of_sets/{name}/{key} request parameter details

Table 83: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/map_of_sets/{name}/{key} response codes

Table 84: 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
404	1002	The reference map of sets does not exist
404	1003	The record does not exist in the reference map of sets
422	1005	A request parameter is not valid
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"
}
```

POST /reference_data/map_of_sets/{name}

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

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

POST /reference_data/map_of_sets/{name} resource details

Table 85: POST /reference_data/map_of_sets/{name} resource details

MIME Type
application/json

POST /reference_data/map_of_sets/{name} request parameter details

Table 86: 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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/map_of_sets/{name} response codes

Table 87: 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"
  }

```

POST /reference_data/map_of_sets

Create a new reference map of sets.

Create a new reference map of sets.

POST /reference_data/map_of_sets resource details

Table 88: POST /reference_data/map_of_sets resource details

MIME Type
application/json

POST /reference_data/map_of_sets request parameter details

Table 89: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/map_of_sets response codes

Table 90: POST /reference_data/map_of_sets response codes

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created
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.
422	1005	A request parameter is not valid
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/maps

Retrieve a list of all reference maps.

Retrieve a list of all reference maps.

GET /reference_data/maps resource details

Table 91: GET /reference_data/maps resource details

MIME Type
application/json

GET /reference_data/maps request parameter details

Table 92: GET /reference_data/maps request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/maps response codes

Table 93: 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"
  }
]
```

DELETE /reference_data/maps/{name}

Remove a reference map or purge its contents.

Remove a reference map or purge its contents.

DELETE /reference_data/maps/{name} resource details

Table 94: DELETE /reference_data/maps/{name} resource details

MIME Type
application/json

DELETE /reference_data/maps/{name} request parameter details

Table 95: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/maps/{name} response codes

Table 96: 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
404	1002	The reference map does not exist
409	1004	The reference map could not be deleted, it is being used by other objects.

Table 96: DELETE /reference_data/maps/{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 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"
}
```

GET /reference_data/maps/{name}

Retrieve the reference map identified by name.

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

GET /reference_data/maps/{name} resource details

Table 97: GET /reference_data/maps/{name} resource details

MIME Type
application/json

GET /reference_data/maps/{name} request parameter details

Table 98: 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
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

Table 98: GET /reference_data/maps/{name} request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/maps/{name} response codes

Table 99: 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": {
    "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"
  }

```

DELETE /reference_data/maps/{name}/{key}

Remove a value from a reference map.

Remove a value from a reference map.

DELETE /reference_data/maps/{name}/{key} resource details

Table 100: DELETE /reference_data/maps/{name}/{key} resource details

MIME Type
application/json

DELETE /reference_data/maps/{name}/{key} request parameter details

Table 101: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/maps/{name}/{key} response codes

Table 102: DELETE /reference_data/maps/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed
404	1002	The reference map does not exist
404	1003	The record does not exist in the reference map

Table 102: DELETE /reference_data/maps/{name}/{key} 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 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"
}
```

POST /reference_data/maps/{name}

Add or update an element in a reference map.

Add or update an element in a reference map.

POST /reference_data/maps/{name} resource details

Table 103: POST /reference_data/maps/{name} resource details

MIME Type
application/json

POST /reference_data/maps/{name} request parameter details

Table 104: 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 104: 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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/maps/{name} response codes

Table 105: 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"
}
```

POST /reference_data/maps

Create a new reference map.

Create a new reference map.

POST /reference_data/maps resource details

Table 106: POST /reference_data/maps resource details

MIME Type
application/json

POST /reference_data/maps request parameter details

Table 107: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/maps response codes

Table 108: POST /reference_data/maps response codes

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.
422	1005	parameters were invalid
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"
}
```

POST /reference_data/sets/bulk_load/{name}

Add or update data in a reference set.

Add or update data in a reference set.

POST /reference_data/sets/bulk_load/{name} resource details

Table 109: POST /reference_data/sets/bulk_load/{name} resource details

MIME Type
application/json

POST /reference_data/sets/bulk_load/{name} request parameter details

Table 110: 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
fields	header	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/sets/bulk_load/{name} request body details

Table 111: POST /reference_data/sets/bulk_load/{name} request body details

Parameter	Data Type	MIME Type	Description	Sample
data	InputStream	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"]

POST /reference_data/sets/bulk_load/{name} response codes

Table 112: 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
400	1001	An error occurred parsing the JSON formatted message body
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

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

Retrieve a list of all reference sets.

Retrieve a list of all reference sets.

GET /reference_data/sets resource details

Table 113: GET /reference_data/sets resource details

MIME Type
application/json

GET /reference_data/sets request parameter details

Table 114: GET /reference_data/sets request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/sets response codes

Table 115: 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>"
  }
]
```

DELETE /reference_data/sets/{name}

Remove a reference set or purge its contents.

Remove a reference set or purge its contents.

DELETE /reference_data/sets/{name} resource details

Table 116: DELETE /reference_data/sets/{name} resource details

MIME Type
application/json

DELETE /reference_data/sets/{name} request parameter details

Table 117: 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
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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/sets/{name} response codes

Table 118: 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
404	1002	The reference set does not exist
409	1004	The reference set could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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>"
}

```

GET /reference_data/sets/{name}

Retrieve the reference set identified by name.

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

GET /reference_data/sets/{name} resource details

Table 119: GET /reference_data/sets/{name} resource details

MIME Type
application/json

GET /reference_data/sets/{name} request parameter details

Table 120: 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
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

Table 120: GET /reference_data/sets/{name} request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/sets/{name} response codes

Table 121: 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"
    }
  ],
  "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.

Add or update an element in a reference set.

POST /reference_data/sets/{name} resource details

Table 122: POST /reference_data/sets/{name} resource details

MIME Type
application/json

POST /reference_data/sets/{name} request parameter details

Table 123: 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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/sets/{name} response codes

Table 124: 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}/{value}

Remove a value from a reference set.

Remove a value from a reference set.

DELETE /reference_data/sets/{name}/{value} resource details

Table 125: DELETE /reference_data/sets/{name}/{value} resource details

MIME Type
application/json

DELETE /reference_data/sets/{name}/{value} request parameter details

Table 126: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/sets/{name}/{value} response codes

Table 127: DELETE /reference_data/sets/{name}/{value} response codes

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed
404	1002	The reference set does not exist
404	1003	The record does not exist in the reference set
422	1005	A request parameter is not valid
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>"
}
```

POST /reference_data/sets

Create a new reference set.

Create a new reference set.

POST /reference_data/sets resource details

Table 128: POST /reference_data/sets resource details

MIME Type
application/json

POST /reference_data/sets request parameter details

Table 129: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/sets response codes

Table 130: POST /reference_data/sets response codes

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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>"
}
```


GET /reference_data/tables

Retrieve a list of all reference tables.

Retrieve a list of all reference tables.

GET /reference_data/tables resource details

Table 131: GET /reference_data/tables resource details

MIME Type
application/json

GET /reference_data/tables request parameter details

Table 132: GET /reference_data/tables request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/tables response codes

Table 133: 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": {
      "String": "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.

Remove a reference table or purge its contents.

DELETE /reference_data/tables/{name} resource details

Table 134: DELETE /reference_data/tables/{name} resource details

MIME Type
application/json

DELETE /reference_data/tables/{name} request parameter details

Table 135: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/tables/{name} response codes

Table 136: 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
404	1002	The reference table does not exist
409	1004	The reference table could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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": {
```

```

    "String": "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 name.

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

GET /reference_data/tables/{name} resource details

Table 137: GET /reference_data/tables/{name} resource details

MIME Type
application/json

GET /reference_data/tables/{name} request parameter details

Table 138: 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
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/tables/{name} response codes

Table 139: 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

Table 139: GET /reference_data/tables/{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 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": {
    "String": {
      "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",
  "key_name_types": {
    "String": "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.

Remove a value from a reference table.

DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} resource details

Table 140: DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} resource details

MIME Type
application/json

DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} request parameter details

Table 141: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} response codes

Table 142: 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
404	1002	The reference table does not exist
404	1003	The record does not exist in the reference table
422	1005	A request parameter is not valid
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": {
      "String": "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.

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

POST /reference_data/tables/{name} resource details

Table 143: POST /reference_data/tables/{name} resource details

MIME Type
application/json

POST /reference_data/tables/{name} request parameter details

Table 144: 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
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.

Table 144: POST /reference_data/tables/{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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/tables/{name} response codes

Table 145: 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": {
    "String": "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.

Create a new reference table.

POST /reference_data/tables resource details

Table 146: POST /reference_data/tables resource details

MIME Type
application/json

POST /reference_data/tables request parameter details

Table 147: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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	KeyNameType[]	application/json	Optional - A JSON formatted string. This array creates the inner key names and corresponding value types for the table
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/tables response codes

Table 148: POST /reference_data/tables response codes

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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": {
    "String": "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 V4 scanner endpoints.

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 e.g. {'name':'New Scan Profile', 'ips':['10.100.85.135']}

POST /scanner/profiles/create resource details

Table 149: POST /scanner/profiles/create resource details

MIME Type
text/plain

POST /scanner/profiles/create request body details

Table 150: POST /scanner/profiles/create request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	null

POST /scanner/profiles/create response codes

Table 151: 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

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

GET /scanner/profiles resource details

Table 152: GET /scanner/profiles resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /scanner/profiles response codes

Table 153: 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 QVM

*Response Sample***POST /scanner/profiles/start**

Initiates a request to start an already created scanProfile. The request takes one parameter - scanProfileId. To get a list of scanProfileIds, simply 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.

POST /scanner/profiles/start resource details

Table 154: POST /scanner/profiles/start resource details

MIME Type
text/plain

POST /scanner/profiles/start request parameter details

Table 155: 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

POST /scanner/profiles/start response codes

Table 156: 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

GET /scanner/scanprofiles resource details

Table 157: GET /scanner/scanprofiles resource details

MIME Type
application/json

GET /scanner/scanprofiles request parameter details

Table 158: GET /scanner/scanprofiles request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /scanner/scanprofiles response codes

Table 159: 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 QVM

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 e.g. {'name':'New Scan Profile', 'ips':['10.100.85.135']}

POST /scanner/scanprofiles resource details

Table 160: POST /scanner/scanprofiles resource details

MIME Type
text/plain

POST /scanner/scanprofiles request body details

Table 161: POST /scanner/scanprofiles request body details

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

POST /scanner/scanprofiles response codes

Table 162: 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. The request takes one parameter - the Scan Profile ID.

DELETE /scanner/scanprofiles/{profileid} resource details

Table 163: DELETE /scanner/scanprofiles/{profileid} resource details

MIME Type
text/plain

DELETE /scanner/scanprofiles/{profileid} request parameter details

Table 164: DELETE /scanner/scanprofiles/{profileid} request parameter details

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

DELETE /scanner/scanprofiles/{profileid} response codes

Table 165: 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 - schedule - status - progress - lastRunTime - duration

GET /scanner/scanprofiles/{profileid} resource details

Table 166: GET /scanner/scanprofiles/{profileid} resource details

MIME Type
application/json

GET /scanner/scanprofiles/{profileid} request parameter details

Table 167: 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
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

Table 167: GET /scanner/scanprofiles/{profileid} request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /scanner/scanprofiles/{profileid} response codes

Table 168: 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 QVM

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. One parameter is required, the Scan Profile ID. The following information on a scan profile can be updated - scanProfileName - description - ips

POST /scanner/scanprofiles/{profileid} resource details

Table 169: POST /scanner/scanprofiles/{profileid} resource details

MIME Type
application/json

POST /scanner/scanprofiles/{profileid} request parameter details

Table 170: 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

POST /scanner/scanprofiles/{profileid} request body details

Table 171: POST /scanner/scanprofiles/{profileid} request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	null

POST /scanner/scanprofiles/{profileid} response codes

Table 172: 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. The request takes one parameter - scanProfileId, and one optional parameter - ips. To get a list of scanProfileIds, simply 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.

POST /scanner/scanprofiles/{profileid}/start resource details

Table 173: POST /scanner/scanprofiles/{profileid}/start resource details

MIME Type
text/plain

POST /scanner/scanprofiles/{profileid}/start request parameter details

Table 174: 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

POST /scanner/scanprofiles/{profileid}/start request body details

Table 175: POST /scanner/scanprofiles/{profileid}/start request body details

Parameter	Data Type	MIME Type	Description	Sample
ips	ScanRequest	application/json	null	null

POST /scanner/scanprofiles/{profileid}/start response codes

Table 176: POST /scanner/scanprofiles/{profileid}/start response codes

HTTP Response Code	Unique Code	Description
202		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

SIEM endpoints

Use the references for REST API V4 SIEM endpoints.

GET /siem/local_destination_addresses

Retrieve a list offense local destination addresses currently in the system.

Retrieve a list offense local destination addresses currently in the system.

GET /siem/local_destination_addresses resource details

Table 177: GET /siem/local_destination_addresses resource details

MIME Type
application/json

GET /siem/local_destination_addresses request parameter details

Table 178: GET /siem/local_destination_addresses request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/local_destination_addresses response codes

Table 179: GET /siem/local_destination_addresses response codes

HTTP Response Code	Unique Code	Description
200		The local destination address list was retrieved.
500	1020	An error occurred while the local destination address list was being retrieved.

Response Description

An array of local destination address objects. A local destination address object contains the following fields:

- *id* - Number - The ID of the destination address.
- *local_destination_ip* - String - The IP address.
- *magnitude* - Number - The magnitude of the destination address.
- *network* - String - The network of the destination address.
- *offense_ids* - Array of Numbers - List of offense IDs the destination address is part of.
- *source_address_ids* - Array of Numbers - List of source address IDs associated with the destination address.
- *event_flow_count* - Number - The number of events and flows that are associated with the destination address.
- *first_event_flow_seen* - Number - The number of milliseconds since epoch when the first event or flow was seen.
- *last_event_flow_seen* - Number - The number of milliseconds since epoch when the last event or flow was seen.
- *domain_id* - Number - The ID of associated domain.

Response Sample

```
[
  {
    "domain_id": 42,
    "event_flow_count": 42,
    "first_event_flow_seen": 42,
    "id": 42,
    "last_event_flow_seen": 42,
    "local_destination_ip": "String",
    "magnitude": 42,
    "network": "String",
    "offense_ids": [
      42
    ],
    "source_address_ids": [
      42
    ]
  }
]
```

GET /siem/local_destination_addresses/{local_destination_address_id}

Retrieve an offense local destination address.

Retrieve an offense local destination address.

GET /siem/local_destination_addresses/{local_destination_address_id} resource details

Table 180: GET /siem/local_destination_addresses/{local_destination_address_id} resource details

MIME Type
application/json

GET /siem/local_destination_addresses/{local_destination_address_id} request parameter details

Table 181: GET /siem/local_destination_addresses/{local_destination_address_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
local_destination_address_id	path	Required	Long	text/plain	The ID of the local destination address to retrieve.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/local_destination_addresses/{local_destination_address_id} response codes

Table 182: GET /siem/local_destination_addresses/{local_destination_address_id} response codes

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

Response Description

A local destination address object. A local destination address object contains the following fields:

- *id* - Number - The ID of the destination address.
- *local_destination_ip* - String - The IP address.
- *magnitude* - Number - The magnitude of the destination address.
- *network* - String - The network of the destination address.
- *offense_ids* - Array of Numbers - List of offense IDs the destination address is part of.
- *source_address_ids* - Array of Numbers - List of source address IDs associated with the destination address.
- *event_flow_count* - Number - The number of events and flows that are associated with the destination address.
- *first_event_flow_seen* - Number - The number of milliseconds since epoch when the first event or flow was seen.

- *last_event_flow_seen* - Number - The number of milliseconds since epoch when the last event or flow was seen.
- *domain_id* - Number - The ID of associated domain.

Response Sample

```
{
  "domain_id": 42,
  "event_flow_count": 42,
  "first_event_flow_seen": 42,
  "id": 42,
  "last_event_flow_seen": 42,
  "local_destination_ip": "String",
  "magnitude": 42,
  "network": "String",
  "offense_ids": [
    42
  ],
  "source_address_ids": [
    42
  ]
}
```

GET /siem/offense_closing_reasons/{closing_reason_id}

Retrieve an offense closing reason.

Retrieve an offense closing reason.

GET /siem/offense_closing_reasons/{closing_reason_id} resource details

Table 183: GET /siem/offense_closing_reasons/{closing_reason_id} resource details

MIME Type
application/json

GET /siem/offense_closing_reasons/{closing_reason_id} request parameter details

Table 184: GET /siem/offense_closing_reasons/{closing_reason_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
closing_reason_id	path	Required	Long	text/plain	Required - The closing reason ID.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offense_closing_reasons/{closing_reason_id} response codes

Table 185: 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 ClosingReason object. A closing reason object contains the following fields:

- *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

Retrieve a list of all offense closing reasons.

Retrieve a list of all offense closing reasons.

GET /siem/offense_closing_reasons resource details

Table 186: GET /siem/offense_closing_reasons resource details

MIME Type
application/json

GET /siem/offense_closing_reasons request parameter details

Table 187: 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.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offense_closing_reasons response codes

Table 188: 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

A ClosingReason object. A closing reason object contains the following fields:

- *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"
  }
]

```

POST /siem/offense_closing_reasons

Create an offense closing reason.

Create an offense closing reason.

POST /siem/offense_closing_reasons resource details

Table 189: POST /siem/offense_closing_reasons resource details

MIME Type
application/json

POST /siem/offense_closing_reasons request parameter details

Table 190: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /siem/offense_closing_reasons response codes

Table 191: POST /siem/offense_closing_reasons response codes

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

Response Description

A ClosingReason object. A closing reason object contains the following fields:

- *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.

Retrieve a list of offenses currently in the system.

GET /siem/offenses resource details

Table 192: GET /siem/offenses resource details

MIME Type
application/json

GET /siem/offenses request parameter details

Table 193: GET /siem/offenses request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offenses response codes

Table 194: 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:

- *id* - Number - The ID of the offense. *description* - String - The description 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.
- *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. See the Offense Type Codes table for the code to offense type mapping
- *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* - The number of usernames that are associated with the offense.
- *source_address_ids* - Array of numbers - The source address IDs that are associated with the offense.
- *local_destination_address_ids* - Array of numbers - The local destination address IDs that are associated with the offense.
- *domain_id* - Number - Optional. ID of associated domain if the offense is associated with a single domain.

Offense Type Codes:

Code	Offense Type
0	Source IP
1	Destination IP
2	Event Name
3	Username
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

```
{
  "credibility": 42,
  "source_address_ids": [42],
  "remote_destination_count": 42,
  "local_destination_address_ids": [42],
  "assigned_to": "String",
```

```

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

```

GET /siem/offenses/{offense_id}

Retrieve an offense structure that describes properties of an offense

Retrieve an offense structure that describes properties of an offense

GET /siem/offenses/{offense_id} resource details

Table 195: GET /siem/offenses/{offense_id} resource details

MIME Type
application/json

GET /siem/offenses/{offense_id} request parameter details

Table 196: GET /siem/offenses/{offense_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	text/plain	Required - The offense ID.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offenses/{offense_id} response codes

Table 197: 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.
422	1005	A request parameter is not valid.
500	1020	An error occurred while the offense was being retrieved.

Response Description

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

- *id* - Number - The ID of the offense. *description* - String - The description 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.
- *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. See the Offense Type Codes table for the code to offense type mapping
- *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* - The number of usernames that are associated with the offense.
- *source_address_ids* - Array of numbers - The source address IDs that are associated with the offense.
- *local_destination_address_ids* - Array of numbers - The local destination address IDs that are associated with the offense.
- *domain_id* - Number - Optional. ID of associated domain if the offense is associated with a single domain.

Offense Type Codes:

Code	Offense Type
0	Source IP
1	Destination IP
2	Event Name
3	Username
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

Code	Offense Type
12	Source ASN
13	Destination ASN
14	Rule
15	App Id
18	Scheduled Search

Response Sample

```
{
  "assigned_to": "String",
  "categories": [
    "String"
  ],
  "category_count": 42,
  "close_time": 42,
  "closing_reason_id": 42,
  "closing_user": "String",
  "credibility": 42,
  "description": "String",
  "destination_networks": [
    "String"
  ],
  "device_count": 42,
  "domain_id": 42,
  "event_count": 42,
  "flow_count": 42,
  "follow_up": true,
  "id": 42,
  "inactive": true,
  "last_updated_time": 42,
  "local_destination_address_ids": [
    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_address_ids": [
    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.

Retrieve a list of notes for an offense.

GET /siem/offenses/{offense_id}/notes resource details

Table 198: GET /siem/offenses/{offense_id}/notes resource details

MIME Type
application/json

GET /siem/offenses/{offense_id}/notes request parameter details

Table 199: GET /siem/offenses/{offense_id}/notes request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	text/plain	Required - The offense ID to retrieve the notes for.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offenses/{offense_id}/notes response codes

Table 200: 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

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

- *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.

Retrieve a note for an offense.

GET /siem/offenses/{offense_id}/notes/{note_id} resource details

Table 201: GET /siem/offenses/{offense_id}/notes/{note_id} resource details

MIME Type
application/json

GET /siem/offenses/{offense_id}/notes/{note_id} request parameter details

Table 202: GET /siem/offenses/{offense_id}/notes/{note_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	text/plain	Required - The offense ID to retrieve the note from.
note_id	path	Required	Long	text/plain	Required - The note ID.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offenses/{offense_id}/notes/{note_id} response codes

Table 203: 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.
404	1003	No note was found for the provided note_id.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the note.

Response Description

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

- *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"
}
```

POST /siem/offenses/{offense_id}/notes

Create a note on an offense.

Create a note on an offense.

POST /siem/offenses/{offense_id}/notes resource details

Table 204: POST /siem/offenses/{offense_id}/notes resource details

MIME Type
application/json

POST /siem/offenses/{offense_id}/notes request parameter details

Table 205: POST /siem/offenses/{offense_id}/notes request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	text/plain	Required - The offense ID to add the note to.
note_text	query	Required	String	text/plain	Required - The note text.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /siem/offenses/{offense_id}/notes response codes

Table 206: 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:

- *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"
}
```

POST /siem/offenses/{offense_id}

Update an offense.

Update an offense.

POST /siem/offenses/{offense_id} resource details

Table 207: POST /siem/offenses/{offense_id} resource details

MIME Type
application/json

POST /siem/offenses/{offense_id} request parameter details

Table 208: POST /siem/offenses/{offense_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	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	DismissedCode	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	Long	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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /siem/offenses/{offense_id} response codes

Table 209: POST /siem/offenses/{offense_id} response codes

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

Response Description

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

- *id* - Number - The ID of the offense. *description* - String - The description 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.
- *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. See the Offense Type Codes table for the code to offense type mapping
- *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* - The number of usernames that are associated with the offense.
- *source_address_ids* - Array of numbers - The source address IDs that are associated with the offense.
- *local_destination_address_ids* - Array of numbers - The local destination address IDs that are associated with the offense.
- *domain_id* - Number - Optional. ID of associated domain if the offense is associated with a single domain.

Offense Type Codes:

Code	Offense Type
0	Source IP
1	Destination IP
2	Event Name
3	Username
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"
  ],
  "category_count": 42,
  "close_time": 42,
  "closing_reason_id": 42,
  "closing_user": "String",
  "credibility": 42,
  "description": "String",
  "destination_networks": [
    "String"
  ],
  "device_count": 42,
  "domain_id": 42,
  "event_count": 42,
  "flow_count": 42,
  "follow_up": true,
  "id": 42,
  "inactive": true,
  "last_updated_time": 42,
  "local_destination_address_ids": [
    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_address_ids": [
        42
    ],
    "source_count": 42,
    "source_network": "String",
    "start_time": 42,
    "status": "String <one of: OPEN, HIDDEN, CLOSED>",
    "username_count": 42
}

```

GET /siem/source_addresses

Retrieve a list offense source addresses currently in the system.

Retrieve a list offense source addresses currently in the system.

GET /siem/source_addresses resource details

Table 210: GET /siem/source_addresses resource details

MIME Type
application/json

GET /siem/source_addresses request parameter details

Table 211: GET /siem/source_addresses request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/source_addresses response codes

Table 212: GET /siem/source_addresses response codes

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

Response Description

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

- *id* - Number - The ID of the source.
- *source_ip* - String - The IP address.
- *magnitude* - Number - The magnitude of the source address.
- *network* - String - The network of the source address.
- *offense_ids* - Array of Numbers - List of offense IDs the source is part of.
- *local_destination_address_ids* - Array of Numbers - List of local destination address IDs associated with the source address.
- *event_flow_count* - Number - The number of events and flows that are associated with the source.
- *first_event_flow_seen* - Number - The number of milliseconds since epoch when the first event or flow was seen.
- *last_event_flow_seen* - Number - The number of milliseconds since epoch when the last event or flow was seen.
- *domain_id* - Number - The ID of associated domain.

Response Sample

```
[
  {
    "domain_id": 42,
    "event_flow_count": 42,
    "first_event_flow_seen": 42,
    "id": 42,
    "last_event_flow_seen": 42,
    "local_destination_address_ids": [
      42
    ],
    "magnitude": 42,
    "network": "String",
    "offense_ids": [
      42
    ],
    "source_ip": "String"
  }
]
```

GET /siem/source_addresses/{source_address_id}

Retrieve an offense source address.

Retrieve an offense source address.

GET /siem/source_addresses/{source_address_id} resource details

Table 213: GET /siem/source_addresses/{source_address_id} resource details

MIME Type
application/json

GET /siem/source_addresses/{source_address_id} request parameter details

Table 214: GET /siem/source_addresses/{source_address_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
source_address_id	path	Required	Long	text/plain	The ID of the source address to retrieve.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/source_addresses/{source_address_id} response codes

Table 215: GET /siem/source_addresses/{source_address_id} response codes

HTTP Response Code	Unique Code	Description
200		The source address was retrieved.
404	1002	No source address was found for the provided source_address_id.

Table 215: GET /siem/source_addresses/{source_address_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 source address was being retrieved.

Response Description

A source address object. A source address object contains the following fields:

- *id* - Number - The ID of the source.
- *source_ip* - String - The IP address.
- *magnitude* - Number - The magnitude of the source address.
- *network* - String - The network of the source address.
- *offense_ids* - Array of Numbers - List of offense IDs the source is part of.
- *local_destination_address_ids* - Array of Numbers - List of local destination address IDs associated with the source address.
- *event_flow_count* - Number - The number of events and flows that are associated with the source.
- *first_event_flow_seen* - Number - The number of milliseconds since epoch when the first event or flow was seen.
- *last_event_flow_seen* - Number - The number of milliseconds since epoch when the last event or flow was seen.
- *domain_id* - Number - The ID of associated domain.

Response Sample

```
{
  "domain_id": 42,
  "event_flow_count": 42,
  "first_event_flow_seen": 42,
  "id": 42,
  "last_event_flow_seen": 42,
  "local_destination_address_ids": [
    42
  ],
  "magnitude": 42,
  "network": "String",
  "offense_ids": [
    42
  ],
  "source_ip": "String"
}
```

6 REST API V3.1 References

Ariel endpoints
Asset model endpoints
Authentication endpoints
Help endpoints
Vulnerability Manager endpoints
Reference data endpoints
Scanner endpoints
SIEM endpoints

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

Ariel endpoints

Use the references for REST API V3.1 ariel endpoints.

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.

GET /ariel/databases/{database_name} resource details

Table 216: GET /ariel/databases/{database_name} resource details

MIME Type
application/json

GET /ariel/databases/{database_name} request parameter details

Table 217: 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 that contains the columns that you want to retrieve.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

Table 217: GET /ariel/databases/{database_name} request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /ariel/databases/{database_name} response codes

Table 218: 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 that the column is indexable.

Response Sample

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

GET /ariel/databases

Retrieve Ariel database names

Retrieve a list of available Ariel databases.

GET /ariel/databases resource details

Table 219: GET /ariel/databases resource details

MIME Type
application/json

GET /ariel/databases request parameter details

Table 220: GET /ariel/databases request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

GET /ariel/databases response codes

Table 221: 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 available Ariel databases.

Response Sample

```
[
  "String"
]
```

GET /ariel/searches

Retrieve Ariel search_ids.

Retrieve the list of Ariel searches. This includes search_ids for completed and active searches.

GET /ariel/searches resource details

Table 222: GET /ariel/searches resource details

MIME Type
application/json

GET /ariel/searches request parameter details

Table 223: GET /ariel/searches request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

GET /ariel/searches response codes

Table 224: 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 search IDs.

Response Sample

```
[
  "string"
]
```

POST /ariel/searches

Create a new asynchronous Ariel search

Create an Ariel search based on Ariel Query Language (AQL) query expressions. A search_id is returned with the search results. Searches are executed asynchronously. In subsequent API calls, you can use this search_id to determine the status of the search and retrieve the results. This endpoint only accepts SELECT and RUN query expressions. Queries are applied to the range of data in a time interval. The default time interval is the last 60 seconds. You can specify an alternate time interval in your query expression. For more information, see the AQL Reference Guide.

POST /ariel/searches resource details

Table 225: POST /ariel/searches resource details

MIME Type
application/json

POST /ariel/searches request parameter details

Table 226: 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 custom search_id value for the new search to replace the 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 underscores.
retention_time_msec	query	Optional	Long	text/plain	null
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /ariel/searches response codes

Table 227: POST /ariel/searches response codes

HTTP Response Code	Unique Code	Description
201		An Ariel search was successfully created.
409	1004	The search could not be created. The search_id provided is already in use. Use a unique search_id.
422	2000	The query_expression contains invalid AQL syntax.
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 search has the same search criteria as an existing search, the response message returns a reference to the original search_id and does not create a new search.

Response Sample

```
{
  "compressed_data_file_count": 42,
  "compressed_data_total_size": 42,
  "cursor_id": "String",
  "data_file_count": 42,
  "data_total_size": 42,
  "desired_retention_time_msec": 42,
  "error_messages": [
    {
      "code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
```

```

WARN_MAX_COLLECTED_RECORDS,
ERROR_INVALID_CURSOR,
ERROR_PROTECT_CURSOR,
ERROR_SERVER_IO,
WARN_INTERRUPT,
ERROR_READ_TIMEOUT,
ERROR_INVALID_QUERY_PARAMS,
WARN_QUERY_TIME_LIMIT,
ERROR_GENERAL_FAILURE,
ERROR_FILE_RUNTIME_EXCEPTION,
ERROR_INVALID_QUERY,
WARN_CANCEL,
INFO_INVALID_SORTING,
ERROR_FETCH,
WARN_SHARING_VIOLATION,
WARN_INCOMPLETE_RESULT,
ERROR_QUERY_EXPIRED,
INFO_MAINTENANCE,
ERROR_COULD_NOT_CONNECT,
ERROR_RB_COMMUNICATION,
ERROR_RB_SOURCE_DATABLOCK_SEND,
ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
NEXUS_ERROR> ",

    "contexts": [
        "String"
    ],
    "message": "String",
    "severity": "String <one of: INFO, WARN, ERROR>"
}
],
"index_file_count": 42,
"index_total_size": 42,
"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 collected results and stops the search if it is in progress. This search is deleted regardless of whether the results were saved.

DELETE /ariel/searches/{search_id} resource details

Table 228: DELETE /ariel/searches/{search_id} resource details

MIME Type
application/json

DELETE /ariel/searches/{search_id} request parameter details

Table 229: 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.

DELETE /ariel/searches/{search_id} response codes

Table 230: 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.

Response Sample

```
{
  "error_messages": [
    {
      "code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
        ERROR_READ_TIMEOUT,
        ERROR_INVALID_QUERY_PARAMS,
        WARN_QUERY_TIME_LIMIT,
        ERROR_GENERAL_FAILURE,
        ERROR_FILE_RUNTIME_EXCEPTION,
        ERROR_INVALID_QUERY,
        WARN_CANCEL,
        INFO_INVALID_SORTING, ERROR_FETCH,
        WARN_SHARING_VIOLATION,
        WARN_INCOMPLETE_RESULT,
        ERROR_QUERY_EXPIRED,
        INFO_MAINTENANCE,
        ERROR_COULD_NOT_CONNECT,
        ERROR_RB_COMMUNICATION,
        ERROR_RB_SOURCE_DATABLOCK_SEND,
        ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
        NEXUS_ERROR>",
      "contexts": [
        "String"
      ]
    }
  ]
}
```

```

    ],
    "message": "String",
    "severity": "String <one of: INFO, WARN, ERROR>"
  }
]
}

```

GET /ariel/searches/{search_id}

Retrieve information about an 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 in progress or is complete.

GET /ariel/searches/{search_id} resource details

Table 231: GET /ariel/searches/{search_id} resource details

MIME Type
application/json

GET /ariel/searches/{search_id} request parameter details

Table 232: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /ariel/searches/{search_id} response codes

Table 233: 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 the search status.

Response Sample

```

{
  "compressed_data_file_count": 42,
  "compressed_data_total_size": 42,
  "cursor_id": "String",
  "data_file_count": 42,
  "data_total_size": 42,
  "desired_retention_time_msec": 42,
  "error_messages": [
    {
      "code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
        ERROR_READ_TIMEOUT,
        ERROR_INVALID_QUERY_PARAMS,
        WARN_QUERY_TIME_LIMIT,
        ERROR_GENERAL_FAILURE,
        ERROR_FILE_RUNTIME_EXCEPTION,
        ERROR_INVALID_QUERY,
        WARN_CANCEL,
        INFO_INVALID_SORTING,
        ERROR_FETCH,
        WARN_SHARING_VIOLATION,
        WARN_INCOMPLETE_RESULT,
        ERROR_QUERY_EXPIRED,
        INFO_MAINTENANCE,
        ERROR_COULD_NOT_CONNECT,
        ERROR_RB_COMMUNICATION,
        ERROR_RB_SOURCE_DATABLOCK_SEND,
        ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
        NEXUS_ERROR>",
      "contexts": [
        "String"
      ],
      "message": "String",
      "severity": "String <one of: INFO, WARN, ERROR>"
    }
  ],
  "index_file_count": 42,
  "index_total_size": 42,
  "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.

Update details for an Ariel search. You can update searches in the following ways:

- To cancel an active search, set 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 by using the DELETE /searches/{search_id} endpoint.



Note

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

POST /ariel/searches/{search_id} resource details

Table 234: POST /ariel/searches/{search_id} resource details

MIME Type
application/json

POST /ariel/searches/{search_id} request parameter details

Table 235: 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 235: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /ariel/searches/{search_id} response codes

Table 236: 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.
409	1008	The current status of the search prevented the search results from being saved.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to update the search.

Response Description

Information about the specified search that was updated.

Response Sample

```
{
  "compressed_data_file_count": 42,
  "compressed_data_total_size": 42,
  "cursor_id": "String",
  "data_file_count": 42,
  "data_total_size": 42,
  "desired_retention_time_msec": 42,
  "error_messages": [
    {
      "code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
```

```

        ERROR_READ_TIMEOUT,
        ERROR_INVALID_QUERY_PARAMS,
        WARN_QUERY_TIME_LIMIT,
        ERROR_GENERAL_FAILURE,
        ERROR_FILE_RUNTIME_EXCEPTION,
        ERROR_INVALID_QUERY,
        WARN_CANCEL,
        INFO_INVALID_SORTING,
        ERROR_FETCH,
        WARN_SHARING_VIOLATION,
        WARN_INCOMPLETE_RESULT,
        ERROR_QUERY_EXPIRED,
        INFO_MAINTENANCE,
        ERROR_COULD_NOT_CONNECT,
        ERROR_RB_COMMUNICATION,
        ERROR_RB_SOURCE_DATABLOCK_SEND,
        ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
        NEXUS_ERROR>" ,

        "contexts": [
            "String"
        ],
        "message": "String",
        "severity": "String <one of: INFO, WARN, ERROR>"
    }
},
"index_file_count": 42,
"index_total_size": 42,
"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}/results

Retrieves search results in the requested format.

Retrieve the results of the Ariel search that is identified by the search_id. The Accepts request header indicates the format of the result. 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, you can 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 might not be retrievable for searches that are created on the Console. The response samples are for the following query: Select sourceIP, destinationIP from events.

GET /ariel/searches/{search_id}/results resource details

Table 237: GET /ariel/searches/{search_id}/results resource details

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

GET /ariel/searches/{search_id}/results request parameter details

Table 238: 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 criteria for the returned results.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /ariel/searches/{search_id}/results response codes

Table 239: 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

```
{
  "events": [
    {
      "sourceIP": "1.1.1.1",
      "destinationIP": "127.0.0.1"
    },
    {
      "sourceIP": "1.1.1.1",
      "destinationIP": "127.0.0.1"
    }
  ]
}
```

Asset model endpoints

Use the references for REST API V3.1 Asset Model endpoints.

POST /asset_model/assets/{asset_id}

Update an asset with several pertinent pieces of information.

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.

POST /asset_model/assets/{asset_id} resource details

Table 240: POST /asset_model/assets/{asset_id} resource details

MIME Type
text/plain

POST /asset_model/assets/{asset_id} request parameter details

Table 241: 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.

POST /asset_model/assets/{asset_id} request body details

Table 242: POST /asset_model/assets/{asset_id} request body details

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

POST /asset_model/assets/{asset_id} response codes

Table 243: 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/assets

List all assets found in the model.

List all assets found in the model.

GET /asset_model/assets resource details

Table 244: GET /asset_model/assets resource details

MIME Type
application/json

GET /asset_model/assets request parameter details

Table 245: GET /asset_model/assets request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /asset_model/assets response codes

Table 246: 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,
  "domain_id": 42,
  "interfaces":
  [{
    "first_seen_scanner": 42,
    "id": 42,
    "first_seen_profiler": 42,
    "created": 42,
    "last_seen_profiler": 42,
    "last_seen_scanner": 42,
    "mac_address": "String",
    "ip_addresses":
    [{
      "first_seen_scanner": 42,
      "id": 42,
      "first_seen_profiler": 42,
      "created": 42,
      "network_id": 42,
      "value": "String",
      "last_seen_profiler": 42,
      "last_seen_scanner": 42,
      "type": "String"
    }]
  }],
  "properties":
  [{
    "id": 42,
    "name": "String",
    "value": "String",
    "last_reported": 42,
    "type_id": 42,
    "last_reported_by": "String"
  }]
}
```

GET /asset_model/properties

Get a list of available asset property types that can be used.

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

GET /asset_model/properties resource details

Table 247: GET /asset_model/properties resource details

MIME Type
application/json

GET /asset_model/properties request parameter details

Table 248: GET /asset_model/properties request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /asset_model/properties response codes

Table 249: 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.

Get a list of saved searches that can be used or applied against the `/asset_model/saved_searches/{saved_search_id}/results` query.

GET /asset_model/saved_searches resource details

Table 250: GET /asset_model/saved_searches resource details

MIME Type
application/json

GET /asset_model/saved_searches request parameter details

Table 251: GET /asset_model/saved_searches request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /asset_model/saved_searches response codes

Table 252: 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"
      }
    ],
    "description": "String",
    "filters": [
      {
        "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.

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

GET /asset_model/saved_searches/{saved_search_id}/results resource details

Table 253: GET /asset_model/saved_searches/{saved_search_id}/results resource details

MIME Type
application/json

GET /asset_model/saved_searches/{saved_search_id}/results request parameter details

Table 254: 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.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /asset_model/saved_searches/{saved_search_id}/results response codes

Table 255: 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

```
[
  {
    "domain_id": 42,
    "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 V3.1 authentication endpoints.

POST /auth/logout

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

POST /auth/logout resource details

Table 256: POST /auth/logout resource details

MIME Type
text/plain

There are no parameters for this endpoint.

POST /auth/logout response codes

Table 257: POST /auth/logout response codes

HTTP Response Code	Unique Code	Description
200		The session was invalidated.

Response Description

Returns true. Throws exception upon failure.

Response Sample

```
true
```

Help endpoints

Use the references for REST API V3.1 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

GET /help/capabilities resource details

Table 258: GET /help/capabilities resource details

MIME Type
application/json

GET /help/capabilities request parameter details

Table 259: GET /help/capabilities request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
categories	query	Optional	String[]	application/json	Restrict your search to this list of capabilities
paths	query	Optional	String[]	application/json	Restrict your search to these paths only
httpMethods	query	Optional	String[]	application/json	Restrict your search to these HTTP methods
version	query	Optional	String	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)
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /help/capabilities response codes

Table 260: GET /help/capabilities response codes

HTTP Response Code	Unique Code	Description
200		The API capabilities list was retrieved.
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 Description

Endpoints you are able to access, mapped against versions they belong to. If full content is not requested, values will be null.

Response Sample

```
{
  "categories": [
    {
      "apis": [
        {
          "httpMethod": "String <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": "String",
              "parameters": [
                {
                  "allowMultiple": true,
                  "defaultValue": "String",
                  "description": "String",
                  "name": "String",
                  "pathIndex": 42,
                  "required": true,
                  "source": "String",
                  "supportedContentTypes": [

```

```

        "dataType": "String",
        "mimeType": "String",
        "sample": "String"
    }
}
],
"removalTarget": "String",
"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": "String",
"visibility": "String"
}
],
"path": "String"
}
],
"path": "String"
}
],
"path": "String"
}
}

```

Vulnerability Manager endpoints

Use the references for REST API V3.1 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

GET /qvm/assets resource details

Table 261: GET /qvm/assets resource details

MIME Type
application/json

GET /qvm/assets request parameter details

Table 262: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/assets response codes

Table 263: 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

Get a list of the allowable 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

GET /qvm/filters resource details

Table 264: GET /qvm/filters resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /qvm/filters response codes

Table 265: 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 will contain all available RESTful resources

GET /qvm/network resource details

Table 266: GET /qvm/network resource details

MIME Type
application/json

GET /qvm/network request parameter details

Table 267: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/network response codes

Table 268: 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 openservices present in the asset model with vulnerabilities present.

The response will contain all available RESTful resources

GET /qvm/openservices resource details

Table 269: GET /qvm/openservices resource details

MIME Type
application/json

GET /qvm/openservices request parameter details

Table 270: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/openservices response codes

Table 271: 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

GET /qvm/savedsearches resource details

Table 272: GET /qvm/savedsearches resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /qvm/savedsearches response codes

Table 273: 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. Per saved search: id, name and list fo filters that make up this saved search

*Response Sample***POST /qvm/tickets/assign**

Update the remediation ticket for the assigned vulnerability.

Update the remediation ticket for the assigned vulnerability.

POST /qvm/tickets/assign resource details

Table 274: POST /qvm/tickets/assign resource details

MIME Type
application/json

POST /qvm/tickets/assign request body details

Table 275: POST /qvm/tickets/assign request body details

Parameter	Data Type	MIME Type	Description	Sample
ticket	TicketUpdate	application/json	'ticketId': required 'priority' one of required : Critical, Major, Minor, Warning, Informational 'status' one of required : Opened, Fixed, Re-Opened, Closed 'dueDate' Optional : yyyy-MM-dd HH:mm:ss 'assignedUser' required : valid Qradar user account name or a valid email 'commentUser' Optional : valid Qradar user account name, if not included will default current API user.	[{ "ticketId": "1000", "status": "Opened", "priority": "Critical", "dueDate": "2015-01-04 12:00:00", "assignedUser": "admin", "comment": "testComment", "commentUser": "admin" }]

POST /qvm/tickets/assign response codes

Table 276: 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 will contain all available RESTful resources

GET /qvm/vulninstances resource details

Table 277: GET /qvm/vulninstances resource details

MIME Type
application/json

GET /qvm/vulninstances request parameter details

Table 278: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/vulninstances response codes

Table 279: 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 will contain all available RESTful resources

GET /qvm/vulns resource details

Table 280: GET /qvm/vulns resource details

MIME Type
application/json

GET /qvm/vulns request parameter details

Table 281: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter": "value", "operator": "value", "value": "value"}] e.g. [{"parameter": "IPv4 Address", "operator": "Equals", "value": "10.100.85.111"}]

GET /qvm/vulns response codes

Table 282: 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 V3.1 reference data endpoints.

GET /reference_data/map_of_sets

Retrieve a list of all reference map of sets.

Retrieve a list of all reference map of sets.

GET /reference_data/map_of_sets resource details

Table 283: GET /reference_data/map_of_sets resource details

MIME Type
application/json

GET /reference_data/map_of_sets request parameter details

Table 284: GET /reference_data/map_of_sets request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/map_of_sets response codes

Table 285: 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"
  }
]
```

DELETE /reference_data/map_of_sets/{name}

Remove a map of sets or purge its contents.

Remove a map of sets or purge its contents.

DELETE /reference_data/map_of_sets/{name} resource details

Table 286: DELETE /reference_data/map_of_sets/{name} resource details

MIME Type
application/json

DELETE /reference_data/map_of_sets/{name} request parameter details

Table 287: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/map_of_sets/{name} response codes

Table 288: 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
404	1002	The reference map of sets does not exist
409	1004	The reference map of sets could not be deleted, it is being used by other objects.

Table 288: DELETE /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 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"
}
```

GET /reference_data/map_of_sets/{name}

Return the reference map of sets identified by name.

Return the reference map of sets identified by **name**. If provided, **limit** specifies the number of records to return starting at record specified by **offset**. If not specified, then the first 20 records will be returned.

GET /reference_data/map_of_sets/{name} resource details

Table 289: GET /reference_data/map_of_sets/{name} resource details

MIME Type
application/json

GET /reference_data/map_of_sets/{name} request parameter details

Table 290: 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
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/map_of_sets/{name} response codes

Table 291: 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": {
    "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"
  }

```

DELETE /reference_data/map_of_sets/{name}/{key}

Remove a value from a reference map of sets.

Remove a value from a reference map of sets.

DELETE /reference_data/map_of_sets/{name}/{key} resource details

Table 292: DELETE /reference_data/map_of_sets/{name}/{key} resource details

MIME Type
application/json

DELETE /reference_data/map_of_sets/{name}/{key} request parameter details

Table 293: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/map_of_sets/{name}/{key} response codes

Table 294: 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
404	1002	The reference map of sets does not exist
404	1003	The record does not exist in the reference map of sets
422	1005	A request parameter is not valid
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"
}
```

POST /reference_data/map_of_sets/{name}

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

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

POST /reference_data/map_of_sets/{name} resource details

Table 295: POST /reference_data/map_of_sets/{name} resource details

MIME Type
application/json

POST /reference_data/map_of_sets/{name} request parameter details

Table 296: 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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/map_of_sets/{name} response codes

Table 297: 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"
  }

```

POST /reference_data/map_of_sets

Create a new reference map of sets.

Create a new reference map of sets.

POST /reference_data/map_of_sets resource details

Table 298: POST /reference_data/map_of_sets resource details

MIME Type
application/json

POST /reference_data/map_of_sets request parameter details

Table 299: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/map_of_sets response codes

Table 300: POST /reference_data/map_of_sets response codes

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created
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.
422	1005	A request parameter is not valid
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/maps

Retrieve a list of all reference maps.

Retrieve a list of all reference maps.

GET /reference_data/maps resource details

Table 301: GET /reference_data/maps resource details

MIME Type
application/json

GET /reference_data/maps request parameter details

Table 302: GET /reference_data/maps request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/maps response codes

Table 303: 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"
  }
]
```

DELETE /reference_data/maps/{name}

Remove a reference map or purge its contents.

Remove a reference map or purge its contents.

DELETE /reference_data/maps/{name} resource details

Table 304: DELETE /reference_data/maps/{name} resource details

MIME Type
application/json

DELETE /reference_data/maps/{name} request parameter details

Table 305: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/maps/{name} response codes

Table 306: 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
404	1002	The reference map does not exist
409	1004	The reference map could not be deleted, it is being used by other objects.

Table 306: DELETE /reference_data/maps/{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 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"
}
```

GET /reference_data/maps/{name}

Retrieve the reference map identified by name.

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

GET /reference_data/maps/{name} resource details

Table 307: GET /reference_data/maps/{name} resource details

MIME Type
application/json

GET /reference_data/maps/{name} request parameter details

Table 308: 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
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

Table 308: GET /reference_data/maps/{name} request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/maps/{name} response codes

Table 309: 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": {
    "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"
  }

```

DELETE /reference_data/maps/{name}/{key}

Remove a value from a reference map.

Remove a value from a reference map.

DELETE /reference_data/maps/{name}/{key} resource details

Table 310: DELETE /reference_data/maps/{name}/{key} resource details

MIME Type
application/json

DELETE /reference_data/maps/{name}/{key} request parameter details

Table 311: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/maps/{name}/{key} response codes

Table 312: DELETE /reference_data/maps/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed
404	1002	The reference map does not exist
404	1003	The record does not exist in the reference map

Table 312: DELETE /reference_data/maps/{name}/{key} 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 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"
}
```

POST /reference_data/maps/{name}

Add or update an element in a reference map.

Add or update an element in a reference map.

POST /reference_data/maps/{name} resource details

Table 313: POST /reference_data/maps/{name} resource details

MIME Type
application/json

POST /reference_data/maps/{name} request parameter details

Table 314: 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 314: 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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/maps/{name} response codes

Table 315: 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"
}
```

POST /reference_data/maps

Create a new reference map.

Create a new reference map.

POST /reference_data/maps resource details

Table 316: POST /reference_data/maps resource details

MIME Type
application/json

POST /reference_data/maps request parameter details

Table 317: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/maps response codes

Table 318: POST /reference_data/maps response codes

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.
422	1005	parameters were invalid
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"
}
```

POST /reference_data/sets/bulk_load/{name}

Add or update data in a reference set.

Add or update data in a reference set.

POST /reference_data/sets/bulk_load/{name} resource details

Table 319: POST /reference_data/sets/bulk_load/{name} resource details

MIME Type
application/json

POST /reference_data/sets/bulk_load/{name} request parameter details

Table 320: 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
fields	header	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/sets/bulk_load/{name} request body details

Table 321: POST /reference_data/sets/bulk_load/{name} request body details

Parameter	Data Type	MIME Type	Description	Sample
data	InputStream	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"]

POST /reference_data/sets/bulk_load/{name} response codes

Table 322: 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
400	1001	An error occurred parsing the JSON formatted message body
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

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

Retrieve a list of all reference sets.

Retrieve a list of all reference sets.

GET /reference_data/sets resource details

Table 323: GET /reference_data/sets resource details

MIME Type
application/json

GET /reference_data/sets request parameter details

Table 324: GET /reference_data/sets request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/sets response codes

Table 325: 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>"
  }
]
```

DELETE /reference_data/sets/{name}

Remove a reference set or purge its contents.

Remove a reference set or purge its contents.

DELETE /reference_data/sets/{name} resource details

Table 326: DELETE /reference_data/sets/{name} resource details

MIME Type
application/json

DELETE /reference_data/sets/{name} request parameter details

Table 327: 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
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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/sets/{name} response codes

Table 328: 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
404	1002	The reference set does not exist
409	1004	The reference set could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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>"
}
```

GET /reference_data/sets/{name}

Retrieve the reference set identified by name.

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

GET /reference_data/sets/{name} resource details

Table 329: GET /reference_data/sets/{name} resource details

MIME Type
application/json

GET /reference_data/sets/{name} request parameter details

Table 330: 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
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

Table 330: GET /reference_data/sets/{name} request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/sets/{name} response codes

Table 331: 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"
    }
  ],
  "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.

Add or update an element in a reference set.

POST /reference_data/sets/{name} resource details

Table 332: POST /reference_data/sets/{name} resource details

MIME Type
application/json

POST /reference_data/sets/{name} request parameter details

Table 333: 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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/sets/{name} response codes

Table 334: 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}/{value}

Remove a value from a reference set.

Remove a value from a reference set.

DELETE /reference_data/sets/{name}/{value} resource details

Table 335: DELETE /reference_data/sets/{name}/{value} resource details

MIME Type
application/json

DELETE /reference_data/sets/{name}/{value} request parameter details

Table 336: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/sets/{name}/{value} response codes

Table 337: DELETE /reference_data/sets/{name}/{value} response codes

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed
404	1002	The reference set does not exist
404	1003	The record does not exist in the reference set
422	1005	A request parameter is not valid
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>"
}
```

POST /reference_data/sets

Create a new reference set.

Create a new reference set.

POST /reference_data/sets resource details

Table 338: POST /reference_data/sets resource details

MIME Type
application/json

POST /reference_data/sets request parameter details

Table 339: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/sets response codes

Table 340: POST /reference_data/sets response codes

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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>"
}
```

GET /reference_data/tables

Retrieve a list of all reference tables.

Retrieve a list of all reference tables.

GET /reference_data/tables resource details

Table 341: GET /reference_data/tables resource details

MIME Type
application/json

GET /reference_data/tables request parameter details

Table 342: GET /reference_data/tables request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/tables response codes

Table 343: 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": {
      "String": "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.

Remove a reference table or purge its contents.

DELETE /reference_data/tables/{name} resource details

Table 344: DELETE /reference_data/tables/{name} resource details

MIME Type
application/json

DELETE /reference_data/tables/{name} request parameter details

Table 345: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/tables/{name} response codes

Table 346: 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
404	1002	The reference table does not exist
409	1004	The reference table could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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": {
```

```

    "String": "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 name.

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

GET /reference_data/tables/{name} resource details

Table 347: GET /reference_data/tables/{name} resource details

MIME Type
application/json

GET /reference_data/tables/{name} request parameter details

Table 348: 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
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/tables/{name} response codes

Table 349: 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

Table 349: GET /reference_data/tables/{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 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": {
    "String": {
      "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",
  "key_name_types": {
    "String": "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.

Remove a value from a reference table.

DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} resource details

Table 350: DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} resource details

MIME Type
application/json

DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} request parameter details

Table 351: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} response codes

Table 352: 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
404	1002	The reference table does not exist
404	1003	The record does not exist in the reference table
422	1005	A request parameter is not valid
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": {
      "String": "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.

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

POST /reference_data/tables/{name} resource details

Table 353: POST /reference_data/tables/{name} resource details

MIME Type
application/json

POST /reference_data/tables/{name} request parameter details

Table 354: 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
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.

Table 354: POST /reference_data/tables/{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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/tables/{name} response codes

Table 355: 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": {
    "String": "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.

Create a new reference table.

POST /reference_data/tables resource details

Table 356: POST /reference_data/tables resource details

MIME Type
application/json

POST /reference_data/tables request parameter details

Table 357: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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	KeyNameType[]	application/json	Optional - A JSON formatted string. This array creates the inner key names and corresponding value types for the table
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/tables response codes

Table 358: POST /reference_data/tables response codes

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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": {
    "String": "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 /referencedata/mapOfSets DEPRECATED

Retrieve a list of all reference map of sets

GET /referencedata/mapOfSets resource details

Table 359: GET /referencedata/mapOfSets resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/mapOfSets response codes

Table 360: GET /referencedata/mapOfSets 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

```
[
  {
    "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
  }
]
```

DELETE /referencedata/mapOfSets/{name} DEPRECATED

Remove a map of sets or purge its contents

DELETE /referencedata/mapOfSets/{name} resource details

Table 361: DELETE /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

DELETE /referencedata/mapOfSets/{name} request parameter details

Table 362: 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.

DELETE /referencedata/mapOfSets/{name} response codes

Table 363: 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
404	1002	The reference map of sets does not exist
409	1004	The reference map of sets could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/mapOfSets/{name} DEPRECATED

Return the reference map of sets identified by **name**. If provided, **limit** specifies the number of records to return starting at record specified by **offset**. If not specified, then the first 20 records will be returned.

GET /referencedata/mapOfSets/{name} resource details

Table 364: GET /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

GET /referencedata/mapOfSets/{name} request parameter details

Table 365: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/mapOfSets/{name} response codes

Table 366: 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
    }
  ]
}

```

DELETE /referencedata/mapOfSets/{name}/{key} DEPRECATED

Remove a value from a reference map of sets

DELETE /referencedata/mapOfSets/{name}/{key} resource details

Table 367: DELETE /referencedata/mapOfSets/{name}/{key} resource details

MIME Type
application/json

DELETE /referencedata/mapOfSets/{name}/{key} request parameter details

Table 368: 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.

DELETE /referencedata/mapOfSets/{name}/{key} response codes

Table 369: DELETE /referencedata/mapOfSets/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map of sets has had a value removed
404	1002	The reference map of sets does not exist
404	1003	The record does not exist in the reference map of sets

Table 369: DELETE /referencedata/mapOfSets/{name}/{key} 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 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
}
```

POST /referencedata/mapOfSets/{name} DEPRECATED

Add or update an element in a reference map of sets

POST /referencedata/mapOfSets/{name} resource details

Table 370: POST /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

POST /referencedata/mapOfSets/{name} request parameter details

Table 371: 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

Table 371: POST /referencedata/mapOfSets/{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 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'

POST /referencedata/mapOfSets/{name} response codes

Table 372: POST /referencedata/mapOfSets/{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

```
{
  "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
}
```

POST /referencedata/mapOfSets DEPRECATED

Create a new reference map of sets

POST /referencedata/mapOfSets resource details

Table 373: POST /referencedata/mapOfSets resource details

MIME Type
application/json

POST /referencedata/mapOfSets request parameter details

Table 374: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/mapOfSets response codes

Table 375: POST /referencedata/mapOfSets response codes

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created
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.
422	1005	A request parameter is not valid
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/maps DEPRECATED

Retrieve a list of all reference maps

GET /referencedata/maps resource details

Table 376: GET /referencedata/maps resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/maps response codes

Table 377: 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",
  }
]

```

```

    "key1Label": "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",
    "key1Label": "String",
    "valueLabel": "String",
    "numberOfElements": 42
  }
]

```

DELETE /referencedata/maps/{name} DEPRECATED

Remove a reference map or purge its contents

DELETE /referencedata/maps/{name} resource details

Table 378: DELETE /referencedata/maps/{name} resource details

MIME Type
application/json

DELETE /referencedata/maps/{name} request parameter details

Table 379: 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.

DELETE /referencedata/maps/{name} response codes

Table 380: 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
404	1002	The reference map does not exist
409	1004	The reference map could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/maps/{name} DEPRECATED

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

GET /referencedata/maps/{name} resource details

Table 381: GET /referencedata/maps/{name} resource details

MIME Type
application/json

GET /referencedata/maps/{name} request parameter details

Table 382: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/maps/{name} response codes

Table 383: 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
    }
  }
}

```

DELETE /referencedata/maps/{name}/{key} DEPRECATED

Remove a value from a reference map

DELETE /referencedata/maps/{name}/{key} resource details

Table 384: DELETE /referencedata/maps/{name}/{key} resource details

MIME Type
application/json

DELETE /referencedata/maps/{name}/{key} request parameter details

Table 385: 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.

DELETE /referencedata/maps/{name}/{key} response codes

Table 386: DELETE /referencedata/maps/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed
404	1002	The reference map does not exist
404	1003	The record does not exist in the reference map
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/maps/{name} DEPRECATED

Add or update an element in a reference map

POST /referencedata/maps/{name} resource details

Table 387: POST /referencedata/maps/{name} resource details

MIME Type
application/json

POST /referencedata/maps/{name} request parameter details

Table 388: 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'

POST /referencedata/maps/{name} response codes

Table 389: 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
}
```

POST /referencedata/maps DEPRECATED

Create a new reference map

POST /referencedata/maps resource details

Table 390: POST /referencedata/maps resource details

MIME Type
application/json

POST /referencedata/maps request parameter details

Table 391: 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

Table 391: POST /referencedata/maps request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
elementType	query	Required	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/maps response codes

Table 392: POST /referencedata/maps response codes

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.
422	1005	parameters were invalid
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
}
```

POST /referencedata/sets/bulkLoad/{name} DEPRECATED

Add or update data in a reference set

POST /referencedata/sets/bulkLoad/{name} resource details

Table 393: POST /referencedata/sets/bulkLoad/{name} resource details

MIME Type
application/json

POST /referencedata/sets/bulkLoad/{name} request parameter details

Table 394: 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

POST /referencedata/sets/bulkLoad/{name} request body details

Table 395: POST /referencedata/sets/bulkLoad/{name} request body details

Parameter	Data Type	MIME Type	Description	Sample
data	InputStream	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"]

POST /referencedata/sets/bulkLoad/{name} response codes

Table 396: POST /referencedata/sets/bulkLoad/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference set has had data added or updated
400	1001	An error occurred parsing the JSON formatted message body
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

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": 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
}
```

GET /referencedata/sets DEPRECATED

Retrieve a list of all reference sets.

GET /referencedata/sets resource details

Table 397: GET /referencedata/sets resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/sets response codes

Table 398: 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>"
  }
]
```

DELETE /referencedata/sets/{name} DEPRECATED

Remove a reference set or purge its contents

DELETE /referencedata/sets/{name} resource details

Table 399: DELETE /referencedata/sets/{name} resource details

MIME Type
application/json

DELETE /referencedata/sets/{name} request parameter details

Table 400: 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.

DELETE /referencedata/sets/{name} response codes

Table 401: 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
404	1002	The reference set does not exist
409	1004	The reference set could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/sets/{name} DEPRECATED

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

GET /referencedata/sets/{name} resource details

Table 402: GET /referencedata/sets/{name} resource details

MIME Type
application/json

GET /referencedata/sets/{name} request parameter details

Table 403: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/sets/{name} response codes

Table 404: 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} DEPRECATED

Add or update an element in a reference set

POST /referencedata/sets/{name} resource details

Table 405: POST /referencedata/sets/{name} resource details

MIME Type
application/json

POST /referencedata/sets/{name} request parameter details

Table 406: 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'

POST /referencedata/sets/{name} response codes

Table 407: 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}/{value} DEPRECATED

Remove a value from a reference set

DELETE /referencedata/sets/{name}/{value} resource details

Table 408: DELETE /referencedata/sets/{name}/{value} resource details

MIME Type
application/json

DELETE /referencedata/sets/{name}/{value} request parameter details

Table 409: 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.

DELETE /referencedata/sets/{name}/{value} response codes

Table 410: DELETE /referencedata/sets/{name}/{value} response codes

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed
404	1002	The reference set does not exist
404	1003	The record does not exist in the reference set
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/sets DEPRECATED

Create a new reference set

POST /referencedata/sets resource details

Table 411: POST /referencedata/sets resource details

MIME Type
application/json

POST /referencedata/sets request parameter details

Table 412: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/sets response codes

Table 413: POST /referencedata/sets response codes

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/tables DEPRECATED

Retrieve a list of all reference tables

GET /referencedata/tables resource details

Table 414: GET /referencedata/tables resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/tables response codes

Table 415: 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>"
    }
  }
]

```

DELETE /referencedata/tables/{name} DEPRECATED

Remove a reference table or purge its contents

DELETE /referencedata/tables/{name} resource details

Table 416: DELETE /referencedata/tables/{name} resource details

MIME Type
application/json

DELETE /referencedata/tables/{name} request parameter details

Table 417: 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.

DELETE /referencedata/tables/{name} response codes

Table 418: 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
404	1002	The reference table does not exist

Table 418: DELETE /referencedata/tables/{name} response codes (continued)

HTTP Response Code	Unique Code	Description
409	1004	The reference table could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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>"
  }
}
```

GET /referencedata/tables/{name} DEPRECATED

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

GET /referencedata/tables/{name} resource details

Table 419: GET /referencedata/tables/{name} resource details

MIME Type
application/json

GET /referencedata/tables/{name} request parameter details

Table 420: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/tables/{name} response codes

Table 421: 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",
  "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": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String2": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      }
    },
    "String1": {
      "String1": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String2": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String3": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      }
    }
  }
}

```

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} DEPRECATED

Remove a value from a reference table

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details

Table 422: DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details

MIME Type
application/json

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} request parameter details

Table 423: 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.

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes

Table 424: DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes

HTTP Response Code	Unique Code	Description
200		The reference table had had a value removed
404	1002	The reference table does not exist
404	1003	The record does not exist in the reference table
422	1005	A request parameter is not valid
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>"
  }
}
```

```
}
}
```

POST /referencedata/tables/{name} DEPRECATED

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

POST /referencedata/tables/{name} resource details

Table 425: POST /referencedata/tables/{name} resource details

MIME Type
application/json

POST /referencedata/tables/{name} request parameter details

Table 426: 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'

POST /referencedata/tables/{name} response codes

Table 427: 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>"
  }
}
```

POST /referencedata/tables DEPRECATED

Create a new reference table

POST /referencedata/tables resource details

Table 428: POST /referencedata/tables resource details

MIME Type
application/json

POST /referencedata/tables request parameter details

Table 429: 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	ReferenceDataType	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 keyNameTypes 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

Table 429: POST /referencedata/tables request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
timeoutType	query	Optional	ReferenceDataTimeoutType	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	KeyNameType[]	application/json	Optional - A JSON formatted string. This array creates the inner key names and corresponding value types for the table

POST /referencedata/tables response codes

Table 430: POST /referencedata/tables response codes

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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>"
  }
}
```

Scanner endpoints

Use the references for REST API V4 scanner endpoints.

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 e.g. {'name':'New Scan Profile', 'ips':['10.100.85.135']}

POST /scanner/profiles/create resource details

Table 431: POST /scanner/profiles/create resource details

MIME Type
text/plain

POST /scanner/profiles/create request body details

Table 432: POST /scanner/profiles/create request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	null

POST /scanner/profiles/create response codes

Table 433: 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

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

GET /scanner/profiles resource details

Table 434: GET /scanner/profiles resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /scanner/profiles response codes

Table 435: 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 QVM

Response Sample

POST /scanner/profiles/start

Initiates a request to start an already created scanProfile. The request takes one parameter - scanProfileId. To get a list of scanProfileIds, simply 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.

POST /scanner/profiles/start resource details

Table 436: POST /scanner/profiles/start resource details

MIME Type
text/plain

POST /scanner/profiles/start request parameter details

Table 437: 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

POST /scanner/profiles/start response codes

Table 438: 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

GET /scanner/scanprofiles resource details

Table 439: GET /scanner/scanprofiles resource details

MIME Type
application/json

GET /scanner/scanprofiles request parameter details

Table 440: GET /scanner/scanprofiles request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /scanner/scanprofiles response codes

Table 441: 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 QVM

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 e.g. `{'name':'New Scan Profile', 'ips':['10.100.85.135']}`

POST /scanner/scanprofiles resource details

Table 442: POST /scanner/scanprofiles resource details

MIME Type
text/plain

POST /scanner/scanprofiles request body details

Table 443: POST /scanner/scanprofiles request body details

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

POST /scanner/scanprofiles response codes

Table 444: 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. The request takes one parameter - the Scan Profile ID.

DELETE /scanner/scanprofiles/{profileid} resource details

Table 445: DELETE /scanner/scanprofiles/{profileid} resource details

MIME Type
text/plain

DELETE /scanner/scanprofiles/{profileid} request parameter details

Table 446: DELETE /scanner/scanprofiles/{profileid} request parameter details

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

DELETE /scanner/scanprofiles/{profileid} response codes

Table 447: 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 - schedule - status - progress - lastRunTime - duration

GET /scanner/scanprofiles/{profileid} resource details

Table 448: GET /scanner/scanprofiles/{profileid} resource details

MIME Type
application/json

GET /scanner/scanprofiles/{profileid} request parameter details

Table 449: 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
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /scanner/scanprofiles/{profileid} response codes

Table 450: 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 QVM

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. One parameter is required, the Scan Profile ID. The following information on a scan profile can be updated - scanProfileName - description - ips

POST /scanner/scanprofiles/{profileid} resource details

Table 451: POST /scanner/scanprofiles/{profileid} resource details

MIME Type
application/json

POST /scanner/scanprofiles/{profileid} request parameter details

Table 452: 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

POST /scanner/scanprofiles/{profileid} request body details

Table 453: POST /scanner/scanprofiles/{profileid} request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	null

POST /scanner/scanprofiles/{profileid} response codes

Table 454: 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. The request takes one parameter - scanProfileId, and one optional parameter - ips. To get a list of scanProfileIds, simply 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.

POST /scanner/scanprofiles/{profileid}/start resource details

Table 455: POST /scanner/scanprofiles/{profileid}/start resource details

MIME Type
text/plain

POST /scanner/scanprofiles/{profileid}/start request parameter details

Table 456: 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

POST /scanner/scanprofiles/{profileid}/start request body details

Table 457: POST /scanner/scanprofiles/{profileid}/start request body details

Parameter	Data Type	MIME Type	Description	Sample
ips	ScanRequest	application/json	null	null

POST /scanner/scanprofiles/{profileid}/start response codes

Table 458: POST /scanner/scanprofiles/{profileid}/start response codes

HTTP Response Code	Unique Code	Description
202		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

SIEM endpoints

Use the references for REST API V3.1 SIEM endpoints.

GET /siem/local_destination_addresses

Retrieve a list offense local destination addresses currently in the system.

Retrieve a list offense local destination addresses currently in the system.

GET /siem/local_destination_addresses resource details

Table 459: GET /siem/local_destination_addresses resource details

MIME Type
application/json

GET /siem/local_destination_addresses request parameter details

Table 460: GET /siem/local_destination_addresses request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/local_destination_addresses response codes

Table 461: GET /siem/local_destination_addresses response codes

HTTP Response Code	Unique Code	Description
200		The local destination address list was retrieved.
500	1020	An error occurred while the local destination address list was being retrieved.

Response Description

An array of local destination address objects. A local destination address object contains the following fields:

- *id* - Number - The ID of the destination address.
- *local_destination_ip* - String - The IP address.
- *magnitude* - Number - The magnitude of the destination address.
- *network* - String - The network of the destination address.
- *offense_ids* - Array of Numbers - List of offense IDs the destination address is part of.
- *source_address_ids* - Array of Numbers - List of source address IDs associated with the destination address.
- *event_flow_count* - Number - The number of events and flows that are associated with the destination address.
- *first_event_flow_seen* - Number - The number of milliseconds since epoch when the first event or flow was seen.
- *last_event_flow_seen* - Number - The number of milliseconds since epoch when the last event or flow was seen.
- *domain_id* - Number - The ID of associated domain.

Response Sample

```
[
  {
    "domain_id": 42,
    "event_flow_count": 42,
    "first_event_flow_seen": 42,
    "id": 42,
    "last_event_flow_seen": 42,
    "local_destination_ip": "String",
    "magnitude": 42,
    "network": "String",
    "offense_ids": [
      42
    ],
    "source_address_ids": [
      42
    ]
  }
]
```

GET /siem/local_destination_addresses/{local_destination_address_id}

Retrieve an offense local destination address.

Retrieve an offense local destination address.

GET /siem/local_destination_addresses/{local_destination_address_id} resource details

Table 462: GET /siem/local_destination_addresses/{local_destination_address_id} resource details

MIME Type
application/json

GET /siem/local_destination_addresses/{local_destination_address_id} request parameter details

Table 463: GET /siem/local_destination_addresses/{local_destination_address_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
local_destination_address_id	path	Required	Long	text/plain	The ID of the local destination address to retrieve.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/local_destination_addresses/{local_destination_address_id} response codes

Table 464: GET /siem/local_destination_addresses/{local_destination_address_id} response codes

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

Response Description

A local destination address object. A local destination address object contains the following fields:

- *id* - Number - The ID of the destination address.
- *local_destination_ip* - String - The IP address.
- *magnitude* - Number - The magnitude of the destination address.
- *network* - String - The network of the destination address.
- *offense_ids* - Array of Numbers - List of offense IDs the destination address is part of.
- *source_address_ids* - Array of Numbers - List of source address IDs associated with the destination address.
- *event_flow_count* - Number - The number of events and flows that are associated with the destination address.
- *first_event_flow_seen* - Number - The number of milliseconds since epoch when the first event or flow was seen.
- *last_event_flow_seen* - Number - The number of milliseconds since epoch when the last event or flow was seen.
- *domain_id* - Number - The ID of associated domain.

Response Sample

```
{
  "domain_id": 42,
  "event_flow_count": 42,
  "first_event_flow_seen": 42,
  "id": 42,
  "last_event_flow_seen": 42,
  "local_destination_ip": "String",
  "magnitude": 42,
  "network": "String",
  "offense_ids": [
    42
  ],
  "source_address_ids": [
    42
  ]
}
```

GET /siem/offense_closing_reasons/{closing_reason_id}

Retrieve an offense closing reason.

Retrieve an offense closing reason.

GET /siem/offense_closing_reasons/{closing_reason_id} resource details

Table 465: GET /siem/offense_closing_reasons/{closing_reason_id} resource details

MIME Type
application/json

GET /siem/offense_closing_reasons/{closing_reason_id} request parameter details

Table 466: GET /siem/offense_closing_reasons/{closing_reason_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
closing_reason_id	path	Required	Long	text/plain	Required - The closing reason ID.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offense_closing_reasons/{closing_reason_id} response codes

Table 467: 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 ClosingReason object. A closing reason object contains the following fields:

- *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

Retrieve a list of all offense closing reasons.

Retrieve a list of all offense closing reasons.

GET /siem/offense_closing_reasons resource details

Table 468: GET /siem/offense_closing_reasons resource details

MIME Type
application/json

GET /siem/offense_closing_reasons request parameter details

Table 469: 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.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offense_closing_reasons response codes

Table 470: 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 ClosingReason objects. A closing reason object contains the following fields:

- *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"
  }
]
```

POST /siem/offense_closing_reasons

Create an offense closing reason.

Create an offense closing reason.

POST /siem/offense_closing_reasons resource details

Table 471: POST /siem/offense_closing_reasons resource details

MIME Type
application/json

POST /siem/offense_closing_reasons request parameter details

Table 472: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /siem/offense_closing_reasons response codes

Table 473: POST /siem/offense_closing_reasons response codes

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

Response Description

A ClosingReason object. A closing reason object contains the following fields:

- *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.

Retrieve a list of offenses currently in the system.

GET /siem/offenses resource details

Table 474: GET /siem/offenses resource details

MIME Type
application/json

GET /siem/offenses request parameter details

Table 475: GET /siem/offenses request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offenses response codes

Table 476: 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:

- *id* - Number - The ID of the offense. *description* - String - The description 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.
- *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. See the Offense Type Codes table for the code to offense type mapping
- *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* - The number of usernames that are associated with the offense.
- *source_address_ids* - Array of numbers - The source address IDs that are associated with the offense.
- *local_destination_address_ids* - Array of numbers - The local destination address IDs that are associated with the offense.
- *domain_id* - Number - Optional. ID of associated domain if the offense is associated with a single domain.

Offense Type Codes:

Code	Offense Type
0	Source IP
1	Destination IP
2	Event Name
3	Username
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

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

GET /siem/offenses/{offense_id}

Retrieve an offense structure that describes properties of an offense

Retrieve an offense structure that describes properties of an offense

GET /siem/offenses/{offense_id} resource details

Table 477: GET /siem/offenses/{offense_id} resource details

MIME Type
application/json

GET /siem/offenses/{offense_id} request parameter details

Table 478: GET /siem/offenses/{offense_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	text/plain	Required - The offense ID.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offenses/{offense_id} response codes

Table 479: 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.
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:

- *id* - Number - The ID of the offense. *description* - String - The description 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.
- *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. See the Offense Type Codes table for the code to offense type mapping
- *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* - The number of usernames that are associated with the offense.
- *source_address_ids* - Array of numbers - The source address IDs that are associated with the offense.
- *local_destination_address_ids* - Array of numbers - The local destination address IDs that are associated with the offense.
- *domain_id* - Number - Optional. ID of associated domain if the offense is associated with a single domain.

Offense Type Codes:

Code	Offense Type
0	Source IP
1	Destination IP
2	Event Name
3	Username
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

Code	Offense Type
12	Source ASN
13	Destination ASN
14	Rule
15	App Id
18	Scheduled Search

Response Sample

```
{
  "assigned_to": "String",
  "categories": [
    "String"
  ],
  "category_count": 42,
  "close_time": 42,
  "closing_reason_id": 42,
  "closing_user": "String",
  "credibility": 42,
  "description": "String",
  "destination_networks": [
    "String"
  ],
  "device_count": 42,
  "domain_id": 42,
  "event_count": 42,
  "flow_count": 42,
  "follow_up": true,
  "id": 42,
  "inactive": true,
  "last_updated_time": 42,
  "local_destination_address_ids": [
    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_address_ids": [
    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.

Retrieve a list of notes for an offense.

GET /siem/offenses/{offense_id}/notes resource details

Table 480: GET /siem/offenses/{offense_id}/notes resource details

MIME Type
application/json

GET /siem/offenses/{offense_id}/notes request parameter details

Table 481: GET /siem/offenses/{offense_id}/notes request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	text/plain	Required - The offense ID to retrieve the notes for.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offenses/{offense_id}/notes response codes

Table 482: 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:

- *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.

Retrieve a note for an offense.

GET /siem/offenses/{offense_id}/notes/{note_id} resource details

Table 483: GET /siem/offenses/{offense_id}/notes/{note_id} resource details

MIME Type
application/json

GET /siem/offenses/{offense_id}/notes/{note_id} request parameter details

Table 484: GET /siem/offenses/{offense_id}/notes/{note_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	text/plain	Required - The offense ID to retrieve the note from.
note_id	path	Required	Long	text/plain	Required - The note ID.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offenses/{offense_id}/notes/{note_id} response codes

Table 485: 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.
404	1003	No note was found for the provided note_id.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the note.

Response Description

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

- *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"
}
```

POST /siem/offenses/{offense_id}/notes

Create a note on an offense.

Create a note on an offense.

POST /siem/offenses/{offense_id}/notes resource details

Table 486: POST /siem/offenses/{offense_id}/notes resource details

MIME Type
application/json

POST /siem/offenses/{offense_id}/notes request parameter details

Table 487: POST /siem/offenses/{offense_id}/notes request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	text/plain	Required - The offense ID to add the note to.
note_text	query	Required	String	text/plain	Required - The note text.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /siem/offenses/{offense_id}/notes response codes

Table 488: 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:

- *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"
}
```

POST /siem/offenses/{offense_id}

Update an offense.

Update an offense.

POST /siem/offenses/{offense_id} resource details

Table 489: POST /siem/offenses/{offense_id} resource details

MIME Type
application/json

POST /siem/offenses/{offense_id} request parameter details

Table 490: POST /siem/offenses/{offense_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	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	DismissedCode	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	Long	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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /siem/offenses/{offense_id} response codes

Table 491: POST /siem/offenses/{offense_id} response codes

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

Response Description

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

- *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.
- *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. See the Offense Type Codes table for the code to offense type mapping
- *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* - The number of usernames that are associated with the offense.
- *source_address_ids* - Array of numbers - The source address IDs that are associated with the offense.
- *local_destination_address_ids* - Array of numbers - The local destination address IDs that are associated with the offense.
- *domain_id* - Number - Optional. ID of associated domain if the offense is associated with a single domain.

Offense Type Codes:

Code	Offense Type
0	Source IP
1	Destination IP
2	Event Name
3	Username
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"
  ],
  "category_count": 42,
  "close_time": 42,
  "closing_reason_id": 42,
  "closing_user": "String",
  "credibility": 42,
  "description": "String",
  "destination_networks": [
    "String"
  ],
  "device_count": 42,
  "domain_id": 42,
  "event_count": 42,
  "flow_count": 42,
  "follow_up": true,
  "id": 42,
  "inactive": true,
  "last_updated_time": 42,
  "local_destination_address_ids": [
    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_address_ids": [
      42
    ],
    "source_count": 42,
    "source_network": "String",
    "start_time": 42,
    "status": "String <one of: OPEN, HIDDEN, CLOSED>",
    "username_count": 42
  }

```

GET /siem/source_addresses

Retrieve a list offense source addresses currently in the system.

Retrieve a list offense source addresses currently in the system.

GET /siem/source_addresses resource details

Table 492: GET /siem/source_addresses resource details

MIME Type
application/json

GET /siem/source_addresses request parameter details

Table 493: GET /siem/source_addresses request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/source_addresses response codes

Table 494: GET /siem/source_addresses response codes

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

Response Description

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

- *id* - Number - The ID of the source.
- *source_ip* - String - The IP address.
- *magnitude* - Number - The magnitude of the source address.
- *network* - String - The network of the source address.
- *offense_ids* - Array of Numbers - List of offense IDs the source is part of.
- *local_destination_address_ids* - Array of Numbers - List of local destination address IDs associated with the source address.
- *event_flow_count* - Number - The number of events and flows that are associated with the source.
- *first_event_flow_seen* - Number - The number of milliseconds since epoch when the first event or flow was seen.
- *last_event_flow_seen* - Number - The number of milliseconds since epoch when the last event or flow was seen.
- *domain_id* - Number - The ID of associated domain.

Response Sample

```
[
  {
    "domain_id": 42,
    "event_flow_count": 42,
    "first_event_flow_seen": 42,
    "id": 42,
    "last_event_flow_seen": 42,
    "local_destination_address_ids": [
      42
    ],
    "magnitude": 42,
    "network": "String",
    "offense_ids": [
      42
    ],
    "source_ip": "String"
  }
]
```

GET /siem/source_addresses/{source_address_id}

Retrieve an offense source address.

Retrieve an offense source address.

GET /siem/source_addresses/{source_address_id} resource details

Table 495: GET /siem/source_addresses/{source_address_id} resource details

MIME Type
application/json

GET /siem/source_addresses/{source_address_id} request parameter details

Table 496: GET /siem/source_addresses/{source_address_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
source_address_id	path	Required	Long	text/plain	The ID of the source address to retrieve.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/source_addresses/{source_address_id} response codes

Table 497: GET /siem/source_addresses/{source_address_id} response codes

HTTP Response Code	Unique Code	Description
200		The source address was retrieved.
404	1002	No source address was found for the provided source_address_id.

Table 497: GET /siem/source_addresses/{source_address_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 source address was being retrieved.

Response Description

A source address object. A source address object contains the following fields:

- *id* - Number - The ID of the source.
- *source_ip* - String - The IP address.
- *magnitude* - Number - The magnitude of the source address.
- *network* - String - The network of the source address.
- *offense_ids* - Array of Numbers - List of offense IDs the source is part of.
- *local_destination_address_ids* - Array of Numbers - List of local destination address IDs associated with the source address.
- *event_flow_count* - Number - The number of events and flows that are associated with the source.
- *first_event_flow_seen* - Number - The number of milliseconds since epoch when the first event or flow was seen.
- *last_event_flow_seen* - Number - The number of milliseconds since epoch when the last event or flow was seen.
- *domain_id* - Number - The ID of associated domain.

Response Sample

```
{
  "domain_id": 42,
  "event_flow_count": 42,
  "first_event_flow_seen": 42,
  "id": 42,
  "last_event_flow_seen": 42,
  "local_destination_address_ids": [
    42
  ],
  "magnitude": 42,
  "network": "String",
  "offense_ids": [
    42
  ],
  "source_ip": "String"
}
```

7 Previous REST API versions

[REST API V3.0 References](#)
[REST API V2.0 References](#)
[REST API V1.0 References](#)
[REST API V0.2 References](#)
[REST API V0.1 References](#)

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

REST API V3.0 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 V3.0 ariel endpoints.

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.

GET /ariel/databases/{database_name} resource details

Table 498: GET /ariel/databases/{database_name} resource details

MIME Type
application/json

Table 499: 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 that contains the columns that you want to retrieve.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

Table 500: 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 that the column is indexable.

Response Sample

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

```
    ]
  }
```

GET /ariel/databases

Retrieve Ariel database names

Retrieve a list of available Ariel databases.

GET /ariel/databases resource details

Table 501: GET /ariel/databases resource details

MIME Type
application/json

GET /ariel/databases request parameter details

Table 502: GET /ariel/databases request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

GET /ariel/databases response codes

Table 503: 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 available Ariel databases.

Response Sample

```
[
  "String"
]
```

GET /ariel/searches

Retrieve Ariel search_ids.

Retrieve the list of Ariel searches. This includes search_ids for completed and active searches.

GET /ariel/searches resource details

Table 504: GET /ariel/searches resource details

MIME Type
application/json

GET /ariel/searches request parameter details

Table 505: GET /ariel/searches request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

GET /ariel/searches response codes

Table 506: 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 search IDs.

Response Sample

```
[
  "String"
]
```

POST /ariel/searches

Create a new asynchronous Ariel search

Create an Ariel search based on Ariel Query Language (AQL) query expressions. A search_id is returned with the search results. Searches are executed asynchronously. In subsequent API calls, you can use this search_id to determine the status of the search and retrieve the results. This endpoint only

accepts SELECT and RUN query expressions. Queries are applied to the range of data in a time interval. The default time interval is the last 60 seconds. You can specify an alternate time interval in your query expression. For more information, see the AQL Reference Guide.

POST /ariel/searches resource details

Table 507: POST /ariel/searches resource details

MIME Type
application/json

POST /ariel/searches request parameter details

Table 508: 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 custom search_id value for the new search to replace the 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 underscores.
retention_time_msec	query	Optional	Long	text/plain	null
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /ariel/searches response codes

Table 509: POST /ariel/searches response codes

HTTP Response Code	Unique Code	Description
201		An Ariel search was successfully created.
409	1004	The search could not be created. The search_id provided is already in use. Use a unique search_id.
422	2000	The query_expression contains invalid AQL syntax.
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 search has the same search criteria as an existing search, the response message returns a reference to the original search_id and does not create a new search.

Response Sample

```

{
  "compressed_data_file_count": 42,
  "compressed_data_total_size": 42,
  "cursor_id": "String",
  "data_file_count": 42,
  "data_total_size": 42,
  "desired_retention_time_msec": 42,
  "error_messages": [
    {
      "code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
        ERROR_READ_TIMEOUT,
        ERROR_INVALID_QUERY_PARAMS,
        WARN_QUERY_TIME_LIMIT,
        ERROR_GENERAL_FAILURE,
        ERROR_FILE_RUNTIME_EXCEPTION,
        ERROR_INVALID_QUERY,
        WARN_CANCEL,
        INFO_INVALID_SORTING,
        ERROR_FETCH,
        WARN_SHARING_VIOLATION,
        WARN_INCOMPLETE_RESULT,
        ERROR_QUERY_EXPIRED,
        INFO_MAINTENANCE,
        ERROR_COULD_NOT_CONNECT,
        ERROR_RB_COMMUNICATION,
        ERROR_RB_SOURCE_DATABLOCK_SEND,
        ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
        NEXUS_ERROR>",
      "contexts": [
        "String"
      ],
      "message": "String",
      "severity": "String <one of: INFO, WARN, ERROR>"
    }
  ],
  "index_file_count": 42,
  "index_total_size": 42,
  "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 collected results and stops the search if it in progress. This search is deleted regardless of whether the results were saved.

DELETE /ariel/searches/{search_id} resource details

Table 510: DELETE /ariel/searches/{search_id} resource details

MIME Type
application/json

DELETE /ariel/searches/{search_id} request parameter details

Table 511: 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.

DELETE /ariel/searches/{search_id} response codes

Table 512: 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.

Response Sample

```
{
  "error_messages": [
    {
      "code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
        ERROR_READ_TIMEOUT,
        ERROR_INVALID_QUERY_PARAMS,
        WARN_QUERY_TIME_LIMIT,
        ERROR_GENERAL_FAILURE,
```

```

ERROR_FILE_RUNTIME_EXCEPTION,
ERROR_INVALID_QUERY,
WARN_CANCEL,
INFO_INVALID_SORTING,
ERROR_FETCH,
WARN_SHARING_VIOLATION,
WARN_INCOMPLETE_RESULT,
ERROR_QUERY_EXPIRED,
INFO_MAINTENANCE,
ERROR_COULD_NOT_CONNECT,
ERROR_RB_COMMUNICATION,
ERROR_RB_SOURCE_DATABLOCK_SEND,
ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
NEXUS_ERROR> ",

    "contexts": [
        "String"
    ],
    "message": "String",
    "severity": "String <one of: INFO, WARN, ERROR>"
}
]
}

```

GET /ariel/searches/{search_id}

Retrieve information about an 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 in progress or is complete.

GET /ariel/searches/{search_id} resource details

Table 513: GET /ariel/searches/{search_id} resource details

MIME Type
application/json

GET /ariel/searches/{search_id} request parameter details

Table 514: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /ariel/searches/{search_id} response codes

Table 515: 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 the search status.

Response Sample

```
{
  "compressed_data_file_count": 42,
  "compressed_data_total_size": 42,
  "cursor_id": "String",
  "data_file_count": 42,
  "data_total_size": 42,
  "desired_retention_time_msec": 42,
  "error_messages": [
    {
      "code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
        ERROR_READ_TIMEOUT,
        ERROR_INVALID_QUERY_PARAMS,
        WARN_QUERY_TIME_LIMIT,
        ERROR_GENERAL_FAILURE,
        ERROR_FILE_RUNTIME_EXCEPTION,
        ERROR_INVALID_QUERY,
        WARN_CANCEL,
        INFO_INVALID_SORTING,
        ERROR_FETCH,
        WARN_SHARING_VIOLATION,
        WARN_INCOMPLETE_RESULT,
        ERROR_QUERY_EXPIRED,
        INFO_MAINTENANCE,
        ERROR_COULD_NOT_CONNECT,
        ERROR_RB_COMMUNICATION,
        ERROR_RB_SOURCE_DATABLOCK_SEND,
        ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
        NEXUS_ERROR>",
      "contexts": [
        "String"
      ],
      "message": "String",
    }
  ]
}
```

```

        "severity": "String <one of: INFO, WARN, ERROR>"
    }
},
"index_file_count": 42,
"index_total_size": 42,
"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.

Update details for an Ariel search. You can update searches in the following ways:

- To cancel an active search, set 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 by using the DELETE /searches/{search_id} endpoint.



Note

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

POST /ariel/searches/{search_id} resource details

Table 516: POST /ariel/searches/{search_id} resource details

MIME Type
application/json

POST /ariel/searches/{search_id} request parameter details

Table 517: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /ariel/searches/{search_id} response codes

Table 518: 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.
409	1008	The current status of the search prevented the search results from being saved.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to update the search.

Response Description

Information about the specified search that was updated.

Response Sample

```
{
  "compressed_data_file_count": 42,
  "compressed_data_total_size": 42,
  "cursor_id": "String",
  "data_file_count": 42,
  "data_total_size": 42,
  "desired_retention_time_msec": 42,
  "error_messages": [
    {
```

```

"code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
        ERROR_READ_TIMEOUT,
        ERROR_INVALID_QUERY_PARAMS,
        WARN_QUERY_TIME_LIMIT,
        ERROR_GENERAL_FAILURE,
        ERROR_FILE_RUNTIME_EXCEPTION,
        ERROR_INVALID_QUERY,
        WARN_CANCEL,
        INFO_INVALID_SORTING,
        ERROR_FETCH,
        WARN_SHARING_VIOLATION,
        WARN_INCOMPLETE_RESULT,
        ERROR_QUERY_EXPIRED,
        INFO_MAINTENANCE,
        ERROR_COULD_NOT_CONNECT,
        ERROR_RB_COMMUNICATION,
        ERROR_RB_SOURCE_DATABLOCK_SEND,
        ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
        NEXUS_ERROR>" ,

"contexts": [
  "String"
],
"message": "String",
"severity": "String <one of: INFO, WARN, ERROR>"
}
],
"index_file_count": 42,
"index_total_size": 42,
"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}/results

Retrieves search results in the requested format.

Retrieve the results of the Ariel search that is identified by the search_id. The Accepts request header indicates the format of the result. 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, you can 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 might not be retrievable for

searches that are created on the Console. The response samples are for the following query: Select sourceIP, destinationIP from events.

GET /ariel/searches/{search_id}/results resource details

Table 519: GET /ariel/searches/{search_id}/results resource details

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

GET /ariel/searches/{search_id}/results request parameter details

Table 520: 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 criteria for the returned results.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /ariel/searches/{search_id}/results response codes

Table 521: 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

```
{
  "events": [
    {
      "sourceIP": "1.1.1.1",
      "destinationIP": "127.0.0.1"
    },
    {
      "sourceIP": "1.1.1.1",
      "destinationIP": "127.0.0.1"
    }
  ]
}
```



```
]
}
```

Asset model endpoints

Use the references for REST API V4 Asset Model endpoints.

POST /asset_model/assets/{asset_id}

Update an asset with several pertinent pieces of information.

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.

POST `/asset_model/assets/{asset_id}` resource details

Table 522: POST `/asset_model/assets/{asset_id}` resource details

MIME Type
text/plain

POST `/asset_model/assets/{asset_id}` request parameter details

Table 523: POST `/asset_model/assets/{asset_id}` request parameter details

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

POST `/asset_model/assets/{asset_id}` request body details

Table 524: POST `/asset_model/assets/{asset_id}` request body details

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

POST `/asset_model/assets/{asset_id}` response codes

Table 525: 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/assets

List all assets found in the model.

List all assets found in the model.

GET /asset_model/assets resource details

Table 526: GET /asset_model/assets resource details

MIME Type
application/json

GET /asset_model/assets request parameter details

Table 527: GET /asset_model/assets request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /asset_model/assets response codes

Table 528: 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":
    [{
      "first_seen_scanner": 42,
      "id": 42,
      "first_seen_profiler": 42,
      "created": 42,
      "last_seen_profiler": 42,
      "last_seen_scanner": 42,
      "mac_address": "String",
      "ip_addresses":
        [{
          "first_seen_scanner": 42,
          "id": 42,
          "first_seen_profiler": 42,
          "created": 42,

```

```

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

```

GET /asset_model/properties

Get a list of available asset property types that can be used.

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

GET `/asset_model/properties` resource details

Table 529: GET `/asset_model/properties` resource details

MIME Type
application/json

GET `/asset_model/properties` request parameter details

Table 530: GET /asset_model/properties request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /asset_model/properties response codes

Table 531: 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.

Get a list of saved searches that can be used or applied against the `/asset_model/saved_searches/{saved_search_id}/results` query.

GET `/asset_model/saved_searches` resource details

Table 532: GET `/asset_model/saved_searches` resource details

MIME Type
application/json

GET `/asset_model/saved_searches` request parameter details

Table 533: GET `/asset_model/saved_searches` request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET `/asset_model/saved_searches` response codes

Table 534: 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"
    }
  ],
  "description": "String",
  "filters": [
    {
      "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.

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

GET /asset_model/saved_searches/{saved_search_id}/results resource details

Table 535: GET /asset_model/saved_searches/{saved_search_id}/results resource details

MIME Type
application/json

GET /asset_model/saved_searches/{saved_search_id}/results request parameter details

Table 536: 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.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /asset_model/saved_searches/{saved_search_id}/results response codes

Table 537: 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 V3.0 authentication endpoints.

POST /auth/logout

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

POST /auth/logout resource details

Table 538: POST /auth/logout resource details

MIME Type
text/plain

There are no parameters for this endpoint.

POST /auth/logout response codes

Table 539: POST /auth/logout response codes

HTTP Response Code	Unique Code	Description
200		The session was invalidated.

Response Description

Returns true. Throws exception upon failure.

Response Sample

```
true
```

Help endpoints

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

GET /help/capabilities

List all Extreme Security API capabilities

List the Extreme Security 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

GET /help/capabilities resource details

Table 540: GET /help/capabilities resource details

MIME Type
application/json

GET /help/capabilities request parameter details

Table 541: GET /help/capabilities request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
categories	query	Optional	String[]	application/json	Restrict your search to this list of capabilities
paths	query	Optional	String[]	application/json	Restrict your search to these paths only
httpMethods	query	Optional	String[]	application/json	Restrict your search to these HTTP methods
version	query	Optional	String	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)
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /help/capabilities response codes

Table 542: GET /help/capabilities response codes

HTTP Response Code	Unique Code	Description
200		The API capabilities list was retrieved.
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 Description

Endpoints you are able to access, mapped against versions they belong to. If full content is not requested, values will be null.

Response Sample

```
{
  "categories": [
```

```

{
  "apis": [
    {
      "httpMethod": "String <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": "String",
          "parameters": [
            {
              "allowMultiple": true,
              "defaultValue": "String",
              "description": "String",
              "name": "String",
              "pathIndex": 42,
              "required": true,
              "source": "String",
              "supportedContentTypes": [
                {
                  "dataType": "String",
                  "mimeType": "String",
                  "sample": "String"
                }
              ]
            }
          ],
          "removalTarget": "String",
          "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": "String",
    "visibility": "String"
  }
],
"path": "String"
},
"path": "String"
},
"path": "String"
}

```

Vulnerability Manager endpoints

Use the references for REST API V4 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

GET /qvm/assets resource details

Table 543: GET /qvm/assets resource details

MIME Type
application/json

GET /qvm/assets request parameter details

Table 544: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter": "value", "operator": "value", "value": "value"}] e.g. [{"parameter": "IPv4 Address", "operator": "Equals", "value": "10.100.85.111"}]

GET /qvm/assets response codes

Table 545: 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*

Get a list of allowable 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

GET /qvm/filters resource details

Table 546: GET /qvm/filters resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /qvm/filters response codes

Table 547: 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 will contain all available RESTful resources.

GET /qvm/network resource details

Table 548: GET /qvm/network resource details

MIME Type
application/json

GET /qvm/network request parameter details

Table 549: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/network response codes

Table 550: 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 openservices present in the asset model with vulnerabilities present.

The response will contain all available RESTful resources.

GET /qvm/openservices resource details

Table 551: GET /qvm/openservices resource details

MIME Type
application/json

GET /qvm/openservices request parameter details

Table 552: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/openservices response codes

Table 553: 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

GET /qvm/savedsearches resource details

Table 554: GET /qvm/savedsearches resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /qvm/savedsearches response codes

Table 555: 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. Per saved search: id, name and list fo filters that make up this saved search

Response Sample

POST /qvm/tickets/assign

Update the remediation ticket for the assigned vulnerability.

Update the remediation ticket for the assigned vulnerability.

POST /qvm/tickets/assign resource details

Table 556: POST /qvm/tickets/assign resource details

MIME Type
application/json

POST /qvm/tickets/assign request body details

Table 557: POST /qvm/tickets/assign request body details

Parameter	Data Type	MIME Type	Description	Sample
ticket	TicketUpdate	application/json	'ticketId': required 'priority' one of required : Critical, Major, Minor, Warning, Informational 'status' one of required : Opened, Fixed, Re-Opened, Closed 'dueDate' Optional : yyyy-MM-dd HH:mm:ss 'assignedUser' required : valid Qradar user account name or a valid email 'commentUser' Optional : valid Qradar user account name, if not included will default current API user.	[{ "ticketId":"1000", "status":"Opened", "priority":"Critical", "dueDate":"2015-01-04 12:00:00", "assignedUser":"admin", "comment":"testComment", "commentUser":"admin" }]

POST /qvm/tickets/assign response codes

Table 558: 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 will contain all available RESTful resources

GET /qvm/vulninstances resource details

Table 559: GET /qvm/vulninstances resource details

MIME Type
application/json

GET /qvm/vulninstances request parameter details

Table 560: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/vulninstances response codes

Table 561: 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 will contain all available RESTful resources

GET /qvm/vulns resource details

Table 562: GET /qvm/vulns resource details

MIME Type
application/json

GET /qvm/vulns request parameter details

Table 563: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/vulns response codes

Table 564: 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 V3 Reference Data endpoints.

GET /reference_data/map_of_sets

Retrieve a list of all reference map of sets.

Retrieve a list of all reference map of sets.

GET /reference_data/map_of_sets resource details

Table 565: GET /reference_data/map_of_sets resource details

MIME Type
application/json

GET /reference_data/map_of_sets request parameter details

Table 566: GET /reference_data/map_of_sets request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/map_of_sets response codes

Table 567: 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"
  }
]
```

DELETE /reference_data/map_of_sets/{name}

Remove a map of sets or purge its contents.

Remove a map of sets or purge its contents.

DELETE /reference_data/map_of_sets/{name} resource details

Table 568: DELETE /reference_data/map_of_sets/{name} resource details

MIME Type
application/json

DELETE /reference_data/map_of_sets/{name} request parameter details

Table 569: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/map_of_sets/{name} response codes

Table 570: 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
404	1002	The reference map of sets does not exist
409	1004	The reference map of sets could not be deleted, it is being used by other objects.

Table 570: DELETE /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 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"
}
```

GET /reference_data/map_of_sets/{name}

Return the reference map of sets identified by name.

Return the reference map of sets identified by **name**. If provided, **limit** specifies the number of records to return starting at record specified by **offset**. If not specified, then the first 20 records will be returned.

GET /reference_data/map_of_sets/{name} resource details

Table 571: GET /reference_data/map_of_sets/{name} resource details

MIME Type
application/json

GET /reference_data/map_of_sets/{name} request parameter details

Table 572: 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
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/map_of_sets/{name} response codes

Table 573: 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": {
    "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"
  }

```

DELETE /reference_data/map_of_sets/{name}/{key}

Remove a value from a reference map of sets.

Remove a value from a reference map of sets.

DELETE /reference_data/map_of_sets/{name}/{key} resource details

Table 574: DELETE /reference_data/map_of_sets/{name}/{key} resource details

MIME Type
application/json

DELETE /reference_data/map_of_sets/{name}/{key} request parameter details

Table 575: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/map_of_sets/{name}/{key} response codes

Table 576: 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
404	1002	The reference map of sets does not exist
404	1003	The record does not exist in the reference map of sets
422	1005	A request parameter is not valid
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"
}
```

POST /reference_data/map_of_sets/{name}

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

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

POST /reference_data/map_of_sets/{name} resource details

Table 577: POST /reference_data/map_of_sets/{name} resource details

MIME Type
application/json

POST /reference_data/map_of_sets/{name} request parameter details

Table 578: 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

Table 578: POST /reference_data/map_of_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 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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/map_of_sets/{name} response codes

Table 579: 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"
}
```

POST /reference_data/map_of_sets

Create a new reference map of sets.

Create a new reference map of sets.

POST /reference_data/map_of_sets resource details

Table 580: POST /reference_data/map_of_sets resource details

MIME Type
application/json

POST /reference_data/map_of_sets request parameter details

Table 581: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/map_of_sets response codes

Table 582: POST /reference_data/map_of_sets response codes

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created
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.

Table 582: POST /reference_data/map_of_sets 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 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/maps

Retrieve a list of all reference maps.

Retrieve a list of all reference maps.

GET /reference_data/maps resource details

Table 583: GET /reference_data/maps resource details

MIME Type
application/json

GET /reference_data/maps request parameter details

Table 584: GET /reference_data/maps request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/maps response codes

Table 585: 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"
  }
]
```

DELETE /reference_data/maps/{name}

Remove a reference map or purge its contents.

Remove a reference map or purge its contents.

DELETE /reference_data/maps/{name} resource details

Table 586: DELETE /reference_data/maps/{name} resource details

MIME Type
application/json

DELETE /reference_data/maps/{name} request parameter details

Table 587: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/maps/{name} response codes

Table 588: 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
404	1002	The reference map does not exist
409	1004	The reference map could not be deleted, it is being used by other objects.

Table 588: DELETE /reference_data/maps/{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 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"
}
```

GET /reference_data/maps/{name}

Retrieve the reference map identified by name.

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

GET /reference_data/maps/{name} resource details

Table 589: GET /reference_data/maps/{name} resource details

MIME Type
application/json

GET /reference_data/maps/{name} request parameter details

Table 590: 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
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

Table 590: GET /reference_data/maps/{name} request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/maps/{name} response codes

Table 591: 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": {
    "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"
  }

```

DELETE /reference_data/maps/{name}/{key}

Remove a value from a reference map.

Remove a value from a reference map.

DELETE /reference_data/maps/{name}/{key} resource details

Table 592: DELETE /reference_data/maps/{name}/{key} resource details

MIME Type
application/json

DELETE /reference_data/maps/{name}/{key} request parameter details

Table 593: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/maps/{name}/{key} response codes

Table 594: DELETE /reference_data/maps/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed
404	1002	The reference map does not exist
404	1003	The record does not exist in the reference map

Table 594: DELETE /reference_data/maps/{name}/{key} 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 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"
}
```

POST /reference_data/maps/{name}

Add or update an element in a reference map.

Add or update an element in a reference map.

POST /reference_data/maps/{name} resource details

Table 595: POST /reference_data/maps/{name} resource details

MIME Type
application/json

POST /reference_data/maps/{name} request parameter details

Table 596: 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 596: 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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/maps/{name} response codes

Table 597: 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"
}
```

POST /reference_data/maps

Create a new reference map.

Create a new reference map.

POST /reference_data/maps resource details

Table 598: POST /reference_data/maps resource details

MIME Type
application/json

POST /reference_data/maps request parameter details

Table 599: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/maps response codes

Table 600: POST /reference_data/maps response codes

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.
422	1005	parameters were invalid
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"
}
```

POST /reference_data/sets/bulk_load/{name}

Add or update data in a reference set.

Add or update data in a reference set.

POST /reference_data/sets/bulk_load/{name} resource details

Table 601: POST /reference_data/sets/bulk_load/{name} resource details

MIME Type
application/json

POST /reference_data/sets/bulk_load/{name} request parameter details

Table 602: 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
fields	header	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/sets/bulk_load/{name} request body details

Table 603: POST /reference_data/sets/bulk_load/{name} request body details

Parameter	Data Type	MIME Type	Description	Sample
data	InputStream	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"]

POST /reference_data/sets/bulk_load/{name} response codes

Table 604: 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
400	1001	An error occurred parsing the JSON formatted message body
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

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

Retrieve a list of all reference sets.

Retrieve a list of all reference sets.

GET /reference_data/sets resource details

Table 605: GET /reference_data/sets resource details

MIME Type
application/json

GET /reference_data/sets request parameter details

Table 606: GET /reference_data/sets request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/sets response codes

Table 607: 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>"
  }
]
```

DELETE /reference_data/sets/{name}

Remove a reference set or purge its contents.

Remove a reference set or purge its contents.

DELETE /reference_data/sets/{name} resource details

Table 608: DELETE /reference_data/sets/{name} resource details

MIME Type
application/json

DELETE /reference_data/sets/{name} request parameter details

Table 609: 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
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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/sets/{name} response codes

Table 610: 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
404	1002	The reference set does not exist
409	1004	The reference set could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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>"
}
```

GET /reference_data/sets/{name}

Retrieve the reference set identified by name.

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

GET /reference_data/sets/{name} resource details

Table 611: GET /reference_data/sets/{name} resource details

MIME Type
application/json

GET /reference_data/sets/{name} request parameter details

Table 612: 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
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/sets/{name} response codes

Table 613: 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"
    }
  ],
  "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.

Add or update an element in a reference set.

POST /reference_data/sets/{name} resource details

Table 614: POST /reference_data/sets/{name} resource details

MIME Type
application/json

POST /reference_data/sets/{name} request parameter details

Table 615: 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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/sets/{name} response codes

Table 616: 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}/{value}

Remove a value from a reference set.

Remove a value from a reference set.

DELETE /reference_data/sets/{name}/{value} resource details

Table 617: DELETE /reference_data/sets/{name}/{value} resource details

MIME Type
application/json

DELETE /reference_data/sets/{name}/{value} request parameter details

Table 618: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/sets/{name}/{value} response codes

Table 619: DELETE /reference_data/sets/{name}/{value} response codes

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed
404	1002	The reference set does not exist
404	1003	The record does not exist in the reference set
422	1005	A request parameter is not valid
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>"
}
```

POST /reference_data/sets

Create a new reference set.

Create a new reference set.

POST /reference_data/sets resource details

Table 620: POST /reference_data/sets resource details

MIME Type
application/json

POST /reference_data/sets request parameter details

Table 621: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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.

Table 621: POST /reference_data/sets request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
time_to_live	query	Optional	String	text/plain	Optional - The time to live interval, for example: "1 month" or "5 minutes"
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/sets response codes

Table 622: POST /reference_data/sets response codes

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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>"
}
```

GET /reference_data/tables

Retrieve a list of all reference tables.

Retrieve a list of all reference tables.

GET /reference_data/tables resource details

Table 623: GET /reference_data/tables resource details

MIME Type
application/json

GET /reference_data/tables request parameter details

Table 624: GET /reference_data/tables request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/tables response codes

Table 625: 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": {
      "String": "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.

Remove a reference table or purge its contents.

DELETE /reference_data/tables/{name} resource details

Table 626: DELETE /reference_data/tables/{name} resource details

MIME Type
application/json

DELETE /reference_data/tables/{name} request parameter details

Table 627: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/tables/{name} response codes

Table 628: 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
404	1002	The reference table does not exist
409	1004	The reference table could not be deleted, it is being used by other objects.

Table 628: DELETE /reference_data/tables/{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 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": {
    "String": "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 name.

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

GET /reference_data/tables/{name} resource details

Table 629: GET /reference_data/tables/{name} resource details

MIME Type
application/json

GET /reference_data/tables/{name} request parameter details

Table 630: 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
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/tables/{name} response codes

Table 631: 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": {
    "String": {
      "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",
  "key_name_types": {
```

```

    "String": "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.

Remove a value from a reference table.

DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} resource details

Table 632: DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} resource details

MIME Type
application/json

DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} request parameter details

Table 633: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} response codes

Table 634: 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
404	1002	The reference table does not exist
404	1003	The record does not exist in the reference table
422	1005	A request parameter is not valid
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": {
    "String": "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.

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

POST /reference_data/tables/{name} resource details

Table 635: POST /reference_data/tables/{name} resource details

MIME Type
application/json

POST /reference_data/tables/{name} request parameter details

Table 636: 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
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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/tables/{name} response codes

Table 637: 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": {
      "String": "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.

Create a new reference table.

POST /reference_data/tables resource details

Table 638: POST /reference_data/tables resource details

MIME Type
application/json

POST /reference_data/tables request parameter details

Table 639: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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 639: POST /reference_data/tables request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
key_name_types	query	Optional	KeyNameType[]	application/json	Optional - A JSON formatted string. This array creates the inner key names and corresponding value types for the table
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/tables response codes

Table 640: POST /reference_data/tables response codes

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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": {
    "String": "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 /referencedata/mapOfSets DEPRECATED

Retrieve a list of all reference map of sets

GET /referencedata/mapOfSets resource details

Table 641: GET /referencedata/mapOfSets resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/mapOfSets response codes

Table 642: GET /referencedata/mapOfSets 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

```
[
  {
    "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
  }
]
```

DELETE /referencedata/mapOfSets/{name} DEPRECATED

Remove a map of sets or purge its contents

DELETE /referencedata/mapOfSets/{name} resource details

Table 643: DELETE /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

DELETE /referencedata/mapOfSets/{name} request parameter details

Table 644: 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.

DELETE /referencedata/mapOfSets/{name} response codes

Table 645: 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
404	1002	The reference map of sets does not exist
409	1004	The reference map of sets could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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": 139837702319,
```

```

"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} DEPRECATED

Return the reference map of sets identified by **name**. If provided, **limit** specifies the number of records to return starting at record specified by **offset**. If not specified, then the first 20 records will be returned.

GET /referencedata/mapOfSets/{name} resource details

Table 646: GET /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

GET /referencedata/mapOfSets/{name} request parameter details

Table 647: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/mapOfSets/{name} response codes

Table 648: 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
    }
  ]
}

```

DELETE /referencedata/mapOfSets/{name}/{key} DEPRECATED

Remove a value from a reference map of sets

DELETE /referencedata/mapOfSets/{name}/{key} resource details

Table 649: DELETE /referencedata/mapOfSets/{name}/{key} resource details

MIME Type
application/json

DELETE /referencedata/mapOfSets/{name}/{key} request parameter details

Table 650: 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.

DELETE /referencedata/mapOfSets/{name}/{key} response codes

Table 651: DELETE /referencedata/mapOfSets/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map of sets has had a value removed
404	1002	The reference map of sets does not exist
404	1003	The record does not exist in the reference map of sets
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/mapOfSets/{name} DEPRECATED

Add or update an element in a reference map of sets

POST /referencedata/mapOfSets/{name} resource details

Table 652: POST /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

POST /referencedata/mapOfSets/{name} request parameter details

Table 653: 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

Table 653: POST /referencedata/mapOfSets/{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 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'

POST /referencedata/mapOfSets/{name} response codes

Table 654: POST /referencedata/mapOfSets/{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

```
{
  "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
}
```

POST /referencedata/mapOfSets *DEPRECATED*

Create a new reference map of sets

POST /referencedata/mapOfSets resource details

Table 655: POST /referencedata/mapOfSets resource details

MIME Type
application/json

POST /referencedata/mapOfSets request parameter details

Table 656: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/mapOfSets response codes

Table 657: POST /referencedata/mapOfSets response codes

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created
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.
422	1005	A request parameter is not valid
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": 139837702319,
```

```

"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 DEPRECATED

Retrieve a list of all reference maps

GET /referencedata/maps resource details

Table 658: GET /referencedata/maps resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/maps response codes

Table 659: 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
    }
  ]

```

DELETE /referencedata/maps/{name} DEPRECATED

Remove a reference map or purge its contents

DELETE /referencedata/maps/{name} resource details

Table 660: DELETE /referencedata/maps/{name} resource details

MIME Type
application/json

DELETE /referencedata/maps/{name} request parameter details

Table 661: 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.

DELETE /referencedata/maps/{name} response codes

Table 662: 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
404	1002	The reference map does not exist

Table 662: DELETE /referencedata/maps/{name} response codes (continued)

HTTP Response Code	Unique Code	Description
409	1004	The reference map could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/maps/{name} DEPRECATED

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

GET /referencedata/maps/{name} resource details

Table 663: GET /referencedata/maps/{name} resource details

MIME Type
application/json

GET /referencedata/maps/{name} request parameter details

Table 664: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/maps/{name} response codes

Table 665: 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
    }
  }
}

```

DELETE /referencedata/maps/{name}/{key} DEPRECATED

Remove a value from a reference map

DELETE /referencedata/maps/{name}/{key} resource details

Table 666: DELETE /referencedata/maps/{name}/{key} resource details

MIME Type
application/json

DELETE /referencedata/maps/{name}/{key} request parameter details

Table 667: 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.

DELETE /referencedata/maps/{name}/{key} response codes

Table 668: DELETE /referencedata/maps/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed
404	1002	The reference map does not exist
404	1003	The record does not exist in the reference map
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/maps/{name} DEPRECATED

Add or update an element in a reference map

POST /referencedata/maps/{name} resource details

Table 669: POST /referencedata/maps/{name} resource details

MIME Type
application/json

POST /referencedata/maps/{name} request parameter details

Table 670: 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'

POST /referencedata/maps/{name} response codes

Table 671: 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
}
```

POST /referencedata/maps DEPRECATED

Create a new reference map

POST /referencedata/maps resource details

Table 672: POST /referencedata/maps resource details

MIME Type
application/json

POST /referencedata/maps request parameter details

Table 673: 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

Table 673: POST /referencedata/maps request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
elementType	query	Required	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/maps response codes

Table 674: POST /referencedata/maps response codes

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.
422	1005	parameters were invalid
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
}
```

POST /referencedata/sets/bulkLoad/{name} DEPRECATED

Add or update data in a reference set

POST /referencedata/sets/bulkLoad/{name} resource details

Table 675: POST /referencedata/sets/bulkLoad/{name} resource details

MIME Type
application/json

POST /referencedata/sets/bulkLoad/{name} request parameter details

Table 676: 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

POST /referencedata/sets/bulkLoad/{name} request body details

Table 677: POST /referencedata/sets/bulkLoad/{name} request body details

Parameter	Data Type	MIME Type	Description	Sample
data	InputStream	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"]

POST /referencedata/sets/bulkLoad/{name} response codes

Table 678: POST /referencedata/sets/bulkLoad/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference set has had data added or updated
400	1001	An error occurred parsing the JSON formatted message body
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

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": 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
}
```


GET /referencedata/sets DEPRECATED

Retrieve a list of all reference sets.

GET /referencedata/sets resource details

Table 679: GET /referencedata/sets resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/sets response codes

Table 680: 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>"
  }
]
```

DELETE /referencedata/sets/{name} DEPRECATED

Remove a reference set or purge its contents

DELETE /referencedata/sets/{name} resource details

Table 681: DELETE /referencedata/sets/{name} resource details

MIME Type
application/json

DELETE /referencedata/sets/{name} request parameter details

Table 682: 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.

DELETE /referencedata/sets/{name} response codes

Table 683: 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
404	1002	The reference set does not exist
409	1004	The reference set could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/sets/{name} DEPRECATED

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

GET /referencedata/sets/{name} resource details

Table 684: GET /referencedata/sets/{name} resource details

MIME Type
application/json

GET /referencedata/sets/{name} request parameter details

Table 685: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/sets/{name} response codes

Table 686: 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} DEPRECATED

Add or update an element in a reference set

POST /referencedata/sets/{name} resource details

Table 687: POST /referencedata/sets/{name} resource details

MIME Type
application/json

POST /referencedata/sets/{name} request parameter details

Table 688: 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'

POST /referencedata/sets/{name} response codes

Table 689: 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}/{value} DEPRECATED

Remove a value from a reference set

DELETE /referencedata/sets/{name}/{value} resource details

Table 690: DELETE /referencedata/sets/{name}/{value} resource details

MIME Type
application/json

DELETE /referencedata/sets/{name}/{value} request parameter details

Table 691: 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.

DELETE /referencedata/sets/{name}/{value} response codes

Table 692: DELETE /referencedata/sets/{name}/{value} response codes

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed
404	1002	The reference set does not exist
404	1003	The record does not exist in the reference set
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/sets *DEPRECATED*

Create a new reference set

POST /referencedata/sets resource details

Table 693: POST /referencedata/sets resource details

MIME Type
application/json

POST /referencedata/sets request parameter details

Table 694: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/sets response codes

Table 695: POST /referencedata/sets response codes

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/tables DEPRECATED

Retrieve a list of all reference tables

GET /referencedata/tables resource details

Table 696: GET /referencedata/tables resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/tables response codes

Table 697: 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>"
    }
  }
}
]

```

DELETE /referencedata/tables/{name} DEPRECATED

Remove a reference table or purge its contents

DELETE /referencedata/tables/{name} resource details

Table 698: DELETE /referencedata/tables/{name} resource details

MIME Type
application/json

DELETE /referencedata/tables/{name} request parameter details

Table 699: 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.

DELETE /referencedata/tables/{name} response codes

Table 700: 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
404	1002	The reference table does not exist
409	1004	The reference table could not be deleted, it is being used by other objects.

Table 700: DELETE /referencedata/tables/{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 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>"
  }
}
```

GET /referencedata/tables/{name} DEPRECATED

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

GET /referencedata/tables/{name} resource details

Table 701: GET /referencedata/tables/{name} resource details

MIME Type
application/json

GET /referencedata/tables/{name} request parameter details

Table 702: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/tables/{name} response codes

Table 703: 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": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String2": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      }
    },
    "String1": {
      "String1": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String2": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String3": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      }
    }
  }
}

```

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} DEPRECATED

Remove a value from a reference table

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details

Table 704: DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details

MIME Type
application/json

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} request parameter details

Table 705: 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.

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes

Table 706: DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes

HTTP Response Code	Unique Code	Description
200		The reference table had had a value removed
404	1002	The reference table does not exist
404	1003	The record does not exist in the reference table
422	1005	A request parameter is not valid
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>"
  }
}
```

```

    }
  }
}

```

POST /referencedata/tables/{name} DEPRECATED

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 element type of the reference table

POST /referencedata/tables/{name} resource details

Table 707: POST /referencedata/tables/{name} resource details

MIME Type
application/json

POST /referencedata/tables/{name} request parameter details

Table 708: 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'

POST /referencedata/tables/{name} response codes

Table 709: 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>"
  }
}
```

POST /referencedata/tables DEPRECATED

Create a new reference table

POST /referencedata/tables resource details

Table 710: POST /referencedata/tables resource details

MIME Type
application/json

POST /referencedata/tables request parameter details

Table 711: 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	ReferenceDataType	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 keyNameTypes 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

Table 711: POST /referencedata/tables request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
timeoutType	query	Optional	ReferenceDataTimeoutType	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	KeyNameType[]	application/json	Optional - A JSON formatted string. This array creates the inner key names and corresponding value types for the table

POST /referencedata/tables response codes

Table 712: POST /referencedata/tables response codes

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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/mapOfSets DEPRECATED

Retrieve a list of all reference map of sets

GET /referencedata/mapOfSets resource details

Table 713: GET /referencedata/mapOfSets resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/mapOfSets response codes

Table 714: GET /referencedata/mapOfSets 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

```
[
  {
    "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
  }
]
```

DELETE /referencedata/mapOfSets/{name} DEPRECATED

Remove a map of sets or purge its contents

DELETE /referencedata/mapOfSets/{name} resource details

Table 715: DELETE /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

DELETE /referencedata/mapOfSets/{name} request parameter details

Table 716: 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.

DELETE /referencedata/mapOfSets/{name} response codes

Table 717: 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
404	1002	The reference map of sets does not exist
409	1004	The reference map of sets could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/mapOfSets/{name} DEPRECATED

Return the reference map of sets identified by **name**. If provided, **limit** specifies the number of records to return starting at record specified by **offset**. If not specified, then the first 20 records will be returned.

GET /referencedata/mapOfSets/{name} resource details

Table 718: GET /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

GET /referencedata/mapOfSets/{name} request parameter details

Table 719: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/mapOfSets/{name} response codes

Table 720: 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 720: 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",
  "key1Label": "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
    }
  ]
}

```

DELETE /referencedata/mapOfSets/{name}/{key} DEPRECATED

Remove a value from a reference map of sets

DELETE /referencedata/mapOfSets/{name}/{key} resource details

Table 721: DELETE /referencedata/mapOfSets/{name}/{key} resource details

MIME Type
application/json

DELETE /referencedata/mapOfSets/{name}/{key} request parameter details

Table 722: 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.

DELETE /referencedata/mapOfSets/{name}/{key} response codes

Table 723: DELETE /referencedata/mapOfSets/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map of sets has had a value removed
404	1002	The reference map of sets does not exist
404	1003	The record does not exist in the reference map of sets
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/mapOfSets/{name} DEPRECATED

Add or update an element in a reference map of sets

POST /referencedata/mapOfSets/{name} resource details

Table 724: POST /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

POST /referencedata/mapOfSets/{name} request parameter details

Table 725: 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'

POST /referencedata/mapOfSets/{name} response codes

Table 726: POST /referencedata/mapOfSets/{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

```
{
  "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
  }

```

POST /referencedata/mapOfSets DEPRECATED

Create a new reference map of sets

POST /referencedata/mapOfSets resource details

Table 727: POST /referencedata/mapOfSets resource details

MIME Type
application/json

POST /referencedata/mapOfSets request parameter details

Table 728: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/mapOfSets response codes

Table 729: POST /referencedata/mapOfSets response codes

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created
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.
422	1005	A request parameter is not valid
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/maps DEPRECATED

Retrieve a list of all reference maps

GET /referencedata/maps resource details

Table 730: GET /referencedata/maps resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/maps response codes

Table 731: 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
    }
  ]

```

DELETE /referencedata/maps/{name} DEPRECATED

Remove a reference map or purge its contents

DELETE /referencedata/maps/{name} resource details

Table 732: DELETE /referencedata/maps/{name} resource details

MIME Type
application/json

DELETE /referencedata/maps/{name} request parameter details

Table 733: 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.

DELETE /referencedata/maps/{name} response codes

Table 734: 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
404	1002	The reference map does not exist
409	1004	The reference map could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/maps/{name} DEPRECATED

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

GET /referencedata/maps/{name} resource details

Table 735: GET /referencedata/maps/{name} resource details

MIME Type
application/json

GET /referencedata/maps/{name} request parameter details

Table 736: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/maps/{name} response codes

Table 737: 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
    }
  }
}

```

DELETE /referencedata/maps/{name}/{key} DEPRECATED

Remove a value from a reference map

DELETE /referencedata/maps/{name}/{key} resource details

Table 738: DELETE /referencedata/maps/{name}/{key} resource details

MIME Type
application/json

DELETE /referencedata/maps/{name}/{key} request parameter details

Table 739: 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.

DELETE /referencedata/maps/{name}/{key} response codes

Table 740: DELETE /referencedata/maps/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed
404	1002	The reference map does not exist
404	1003	The record does not exist in the reference map
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/maps/{name} DEPRECATED

Add or update an element in a reference map

POST /referencedata/maps/{name} resource details

Table 741: POST /referencedata/maps/{name} resource details

MIME Type
application/json

POST /referencedata/maps/{name} request parameter details

Table 742: 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'

POST /referencedata/maps/{name} response codes

Table 743: 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
}
```

POST /referencedata/maps DEPRECATED

Create a new reference map

POST /referencedata/maps resource details

Table 744: POST /referencedata/maps resource details

MIME Type
application/json

POST /referencedata/maps request parameter details

Table 745: 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

Table 745: POST /referencedata/maps request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
elementType	query	Required	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/maps response codes

Table 746: POST /referencedata/maps response codes

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.
422	1005	parameters were invalid
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
}
```

POST /referencedata/sets/bulkLoad/{name} DEPRECATED

Add or update data in a reference set

POST /referencedata/sets/bulkLoad/{name} resource details

Table 747: POST /referencedata/sets/bulkLoad/{name} resource details

MIME Type
application/json

POST /referencedata/sets/bulkLoad/{name} request parameter details

Table 748: 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

POST /referencedata/sets/bulkLoad/{name} request body details

Table 749: POST /referencedata/sets/bulkLoad/{name} request body details

Parameter	Data Type	MIME Type	Description	Sample
data	InputStream	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"]

POST /referencedata/sets/bulkLoad/{name} response codes

Table 750: POST /referencedata/sets/bulkLoad/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference set has had data added or updated
400	1001	An error occurred parsing the JSON formatted message body
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

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": 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
}
```

GET /referencedata/sets DEPRECATED

Retrieve a list of all reference sets.

GET /referencedata/sets resource details

Table 751: GET /referencedata/sets resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/sets response codes

Table 752: 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>"
  }
]
```

DELETE /referencedata/sets/{name} DEPRECATED

Remove a reference set or purge its contents

DELETE /referencedata/sets/{name} resource details

Table 753: DELETE /referencedata/sets/{name} resource details

MIME Type
application/json

DELETE /referencedata/sets/{name} request parameter details

Table 754: 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.

DELETE /referencedata/sets/{name} response codes

Table 755: 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
404	1002	The reference set does not exist
409	1004	The reference set could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/sets/{name} DEPRECATED

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

GET /referencedata/sets/{name} resource details

Table 756: GET /referencedata/sets/{name} resource details

MIME Type
application/json

GET /referencedata/sets/{name} request parameter details

Table 757: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/sets/{name} response codes

Table 758: 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} DEPRECATED

Add or update an element in a reference set

POST /referencedata/sets/{name} resource details

Table 759: POST /referencedata/sets/{name} resource details

MIME Type
application/json

POST /referencedata/sets/{name} request parameter details

Table 760: 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'

POST /referencedata/sets/{name} response codes

Table 761: 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}/{value} DEPRECATED

Remove a value from a reference set

DELETE /referencedata/sets/{name}/{value} resource details

Table 762: DELETE /referencedata/sets/{name}/{value} resource details

MIME Type
application/json

DELETE /referencedata/sets/{name}/{value} request parameter details

Table 763: 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.

DELETE /referencedata/sets/{name}/{value} response codes

Table 764: DELETE /referencedata/sets/{name}/{value} response codes

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed
404	1002	The reference set does not exist
404	1003	The record does not exist in the reference set
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/sets *DEPRECATED*

Create a new reference set

POST /referencedata/sets resource details

Table 765: POST /referencedata/sets resource details

MIME Type
application/json

POST /referencedata/sets request parameter details

Table 766: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/sets response codes

Table 767: POST /referencedata/sets response codes

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/tables DEPRECATED

Retrieve a list of all reference tables

GET /referencedata/tables resource details

Table 768: GET /referencedata/tables resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/tables response codes

Table 769: 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>"
    }
  }
}
]

```

DELETE /referencedata/tables/{name} DEPRECATED

Remove a reference table or purge its contents

DELETE /referencedata/tables/{name} resource details

Table 770: DELETE /referencedata/tables/{name} resource details

MIME Type
application/json

DELETE /referencedata/tables/{name} request parameter details

Table 771: 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.

DELETE /referencedata/tables/{name} response codes

Table 772: 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
404	1002	The reference table does not exist
409	1004	The reference table could not be deleted, it is being used by other objects.

Table 772: DELETE /referencedata/tables/{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 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>"
  }
}
```

GET /referencedata/tables/{name} DEPRECATED

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

GET /referencedata/tables/{name} resource details

Table 773: GET /referencedata/tables/{name} resource details

MIME Type
application/json

GET /referencedata/tables/{name} request parameter details

Table 774: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/tables/{name} response codes

Table 775: 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",
  "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": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String2": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      }
    },
    "String1": {
      "String1": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String2": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String3": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      }
    }
  }
}

```

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} DEPRECATED

Remove a value from a reference table

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details

Table 776: DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details

MIME Type
application/json

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} request parameter details

Table 777: 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.

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes

Table 778: DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes

HTTP Response Code	Unique Code	Description
200		The reference table had had a value removed
404	1002	The reference table does not exist
404	1003	The record does not exist in the reference table
422	1005	A request parameter is not valid
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>"
  }
}
```

```

    }
  }
}

```

POST /referencedata/tables/{name} DEPRECATED

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

POST /referencedata/tables/{name} resource details

Table 779: POST /referencedata/tables/{name} resource details

MIME Type
application/json

POST /referencedata/tables/{name} request parameter details

Table 780: 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'

POST /referencedata/tables/{name} response codes

Table 781: 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>"
  }
}
```

POST /referencedata/tables DEPRECATED

Create a new reference table

POST /referencedata/tables resource details

Table 782: POST /referencedata/tables resource details

MIME Type
application/json

POST /referencedata/tables request parameter details

Table 783: 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	ReferenceDataType	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 keyNameTypes 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

Table 783: POST /referencedata/tables request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
timeoutType	query	Optional	ReferenceDataTimeoutType	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	KeyNameType[]	application/json	Optional - A JSON formatted string. This array creates the inner key names and corresponding value types for the table

POST /referencedata/tables response codes

Table 784: POST /referencedata/tables response codes

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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>"
  }
}
```

Scanner endpoints

Use the references for REST API V4 scanner endpoints.

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 e.g. {'name':'New Scan Profile', 'ips':['10.100.85.135']}

POST /scanner/profiles/create resource details

Table 785: POST /scanner/profiles/create resource details

MIME Type
text/plain

POST /scanner/profiles/create request body details

Table 786: POST /scanner/profiles/create request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	null

POST /scanner/profiles/create response codes

Table 787: 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

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

GET /scanner/profiles resource details

Table 788: GET /scanner/profiles resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /scanner/profiles response codes

Table 789: 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 QVM

Response Sample

POST /scanner/profiles/start

Initiates a request to start an already created scanProfile. The request takes one parameter - scanProfileId. To get a list of scanProfileIds, simply 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.

POST /scanner/profiles/start resource details

Table 790: POST /scanner/profiles/start resource details

MIME Type
text/plain

POST /scanner/profiles/start request parameter details

Table 791: 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

POST /scanner/profiles/start response codes

Table 792: 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

GET /scanner/scanprofiles resource details

Table 793: GET /scanner/scanprofiles resource details

MIME Type
application/json

GET /scanner/scanprofiles request parameter details

Table 794: GET /scanner/scanprofiles request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /scanner/scanprofiles response codes

Table 795: 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 QVM

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 e.g. `{'name':'New Scan Profile', 'ips':['10.100.85.135']}`

POST /scanner/scanprofiles resource details

Table 796: POST /scanner/scanprofiles resource details

MIME Type
text/plain

POST /scanner/scanprofiles request body details

Table 797: POST /scanner/scanprofiles request body details

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

POST /scanner/scanprofiles response codes

Table 798: 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. The request takes one parameter - the Scan Profile ID.

DELETE /scanner/scanprofiles/{profileid} resource details

Table 799: DELETE /scanner/scanprofiles/{profileid} resource details

MIME Type
text/plain

DELETE /scanner/scanprofiles/{profileid} request parameter details

Table 800: DELETE /scanner/scanprofiles/{profileid} request parameter details

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

DELETE /scanner/scanprofiles/{profileid} response codes

Table 801: 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 - schedule - status - progress - lastRunTime - duration

GET /scanner/scanprofiles/{profileid} resource details

Table 802: GET /scanner/scanprofiles/{profileid} resource details

MIME Type
application/json

GET /scanner/scanprofiles/{profileid} request parameter details

Table 803: 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
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /scanner/scanprofiles/{profileid} response codes

Table 804: 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 QVM

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. One parameter is required, the Scan Profile ID. The following information on a scan profile can be updated - scanProfileName - description - ips

POST /scanner/scanprofiles/{profileid} resource details

Table 805: POST /scanner/scanprofiles/{profileid} resource details

MIME Type
application/json

POST /scanner/scanprofiles/{profileid} request parameter details

Table 806: 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

POST /scanner/scanprofiles/{profileid} request body details

Table 807: POST /scanner/scanprofiles/{profileid} request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	null

POST /scanner/scanprofiles/{profileid} response codes

Table 808: 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. The request takes one parameter - scanProfileId, and one optional parameter - ips. To get a list of scanProfileIds, simply 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.

POST /scanner/scanprofiles/{profileid}/start resource details

Table 809: POST /scanner/scanprofiles/{profileid}/start resource details

MIME Type
text/plain

POST /scanner/scanprofiles/{profileid}/start request parameter details

Table 810: 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

POST /scanner/scanprofiles/{profileid}/start request body details

Table 811: POST /scanner/scanprofiles/{profileid}/start request body details

Parameter	Data Type	MIME Type	Description	Sample
ips	ScanRequest	application/json	null	null

POST /scanner/scanprofiles/{profileid}/start response codes

Table 812: POST /scanner/scanprofiles/{profileid}/start response codes

HTTP Response Code	Unique Code	Description
202		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

SIEM endpoints

Use the references for REST API V3 SIEM endpoints.

GET /siem/offense_closing_reasons/{closing_reason_id}

Retrieve an offense closing reason.

Retrieve an offense closing reason.

GET /siem/offense_closing_reasons/{closing_reason_id} resource details

Table 813: GET /siem/offense_closing_reasons/{closing_reason_id} resource details

MIME Type
application/json

GET /siem/offense_closing_reasons/{closing_reason_id} request parameter details

Table 814: GET /siem/offense_closing_reasons/{closing_reason_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
closing_reason_id	path	Required	Long	text/plain	Required - The closing reason ID.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offense_closing_reasons/{closing_reason_id} response codes

Table 815: 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 ClosingReason object. A closing reason object contains the following fields:

- *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

Retrieve a list of all offense closing reasons.

Retrieve a list of all offense closing reasons.

GET /siem/offense_closing_reasons resource details

Table 816: GET /siem/offense_closing_reasons resource details

MIME Type
application/json

GET /siem/offense_closing_reasons request parameter details

Table 817: 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.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offense_closing_reasons response codes

Table 818: 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 ClosingReason objects. A closing reason object contains the following fields:

- *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"
  }
]

```

POST /siem/offense_closing_reasons

Create an offense closing reason.

Create an offense closing reason.

POST /siem/offense_closing_reasons resource details

Table 819: POST /siem/offense_closing_reasons resource details

MIME Type
application/json

POST /siem/offense_closing_reasons request parameter details

Table 820: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /siem/offense_closing_reasons response codes

Table 821: POST /siem/offense_closing_reasons response codes

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

Response Description

A ClosingReason object. A closing reason object contains the following fields:

- *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.

Retrieve a list of offenses currently in the system.

GET /siem/offenses resource details

Table 822: GET /siem/offenses resource details

MIME Type
application/json

GET /siem/offenses request parameter details

Table 823: GET /siem/offenses request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offenses response codes

Table 824: 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:

- *id* - Number - The ID of the offense. *description* - String - The description 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.
- *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. See the Offense Type Codes table for the code to offense type mapping
- *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* - The number of usernames that are associated with the offense.

Offense Type Codes:

Code	Offense Type
0	Source IP
1	Destination IP
2	Event Name
3	Username
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

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

GET /siem/offenses/{offense_id}

Retrieve an offense structure that describes properties of an offense

Retrieve an offense structure that describes properties of an offense

GET /siem/offenses/{offense_id} resource details

Table 825: GET /siem/offenses/{offense_id} resource details

MIME Type
application/json

GET /siem/offenses/{offense_id} request parameter details

Table 826: GET /siem/offenses/{offense_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	text/plain	Required - The offense ID.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offenses/{offense_id} response codes

Table 827: 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.
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:

- *id* - Number - The ID of the offense. *description* - String - The description 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.
- *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. See the Offense Type Codes table for the code to offense type mapping
- *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* - The number of usernames that are associated with the offense.

Offense Type Codes:

Code	Offense Type
0	Source IP
1	Destination IP
2	Event Name
3	Username
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"
  ],
  "category_count": 42,
  "close_time": 42,
  "closing_reason_id": 42,
  "closing_user": "String",
  "credibility": 42,
  "description": "String",
  "destination_networks": [
    "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.

Retrieve a list of notes for an offense.

GET /siem/offenses/{offense_id}/notes resource details

Table 828: GET /siem/offenses/{offense_id}/notes resource details

MIME Type
application/json

GET /siem/offenses/{offense_id}/notes request parameter details

Table 829: GET /siem/offenses/{offense_id}/notes request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	text/plain	Required - The offense ID to retrieve the notes for.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offenses/{offense_id}/notes response codes

Table 830: 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:

- *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.

Retrieve a note for an offense.

GET /siem/offenses/{offense_id}/notes/{note_id} resource details

Table 831: GET /siem/offenses/{offense_id}/notes/{note_id} resource details

MIME Type
application/json

GET /siem/offenses/{offense_id}/notes/{note_id} request parameter details

Table 832: GET /siem/offenses/{offense_id}/notes/{note_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	text/plain	Required - The offense ID to retrieve the note from.
note_id	path	Required	Long	text/plain	Required - The note ID.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offenses/{offense_id}/notes/{note_id} response codes

Table 833: 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.
404	1003	No note was found for the provided note_id.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to retrieve the note.

Response Description

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

- *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"
}
```

POST /siem/offenses/{offense_id}/notes

Create a note on an offense.

Create a note on an offense.

POST /siem/offenses/{offense_id}/notes resource details

Table 834: POST /siem/offenses/{offense_id}/notes resource details

MIME Type
application/json

POST /siem/offenses/{offense_id}/notes request parameter details

Table 835: POST /siem/offenses/{offense_id}/notes request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	text/plain	Required - The offense ID to add the note to.
note_text	query	Required	String	text/plain	Required - The note text.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /siem/offenses/{offense_id}/notes response codes

Table 836: 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:

- *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"
}
```

POST /siem/offenses/{offense_id}

Update an offense.

Update an offense.

POST /siem/offenses/{offense_id} resource details

Table 837: POST /siem/offenses/{offense_id} resource details

MIME Type
application/json

POST /siem/offenses/{offense_id} request parameter details

Table 838: POST /siem/offenses/{offense_id} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
offense_id	path	Required	Long	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	DismissedCode	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	Long	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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /siem/offenses/{offense_id} response codes

Table 839: POST /siem/offenses/{offense_id} response codes

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

Response Description

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

- *id* - Number - The ID of the offense. *description* - String - The description 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.
- *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. See the Offense Type Codes table for the code to offense type mapping
- *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* - The number of usernames that are associated with the offense.

Offense Type Codes:

Code	Offense Type
0	Source IP
1	Destination IP
2	Event Name

Code	Offense Type
3	Username
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"
  ],
  "category_count": 42,
  "close_time": 42,
  "closing_reason_id": 42,
  "closing_user": "String",
  "credibility": 42,
  "description": "String",
  "destination_networks": [
    "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
  }

```

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/{database_name} DEPRECATED

This method has been removed and can no longer be used. It is replaced by v3.0 of the /databases/{database_name} endpoint

GET /ariel/databases/{database_name} resource details

Table 840: GET /ariel/databases/{database_name} resource details

MIME Type
application/json

GET /ariel/databases/{database_name} request parameter details

Table 841: GET /ariel/databases/{database_name} request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
database_name	path	Required	String	text/plain	null
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /ariel/databases/{database_name} response codes

Table 842: GET /ariel/databases/{database_name} response codes

HTTP Response Code	Unique Code	Description
404	1002	null
422	1005	null
500	1020	null

Response Description**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/databases

Retrieve Ariel database names

Retrieve a list of available Ariel databases.

GET /ariel/databases resource details

Table 843: GET /ariel/databases resource details

MIME Type
application/json

GET /ariel/databases request parameter details

Table 844: GET /ariel/databases request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

GET /ariel/databases response codes

Table 845: 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 available Ariel databases.

Response Sample

```
[
  "String"
]
```

GET /ariel/searches

Retrieve Ariel search_ids.

Retrieve the list of Ariel searches. This includes search_ids for completed and active searches.

GET /ariel/searches resource details

Table 846: GET /ariel/searches resource details

MIME Type
application/json

GET /ariel/searches request parameter details

Table 847: GET /ariel/searches request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.

GET /ariel/searches response codes

Table 848: 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 search IDs.

Response Sample

```
[
  "String"
]
```

POST /ariel/searches DEPRECATED

Create a new asynchronous Ariel search.

Create an Ariel search based on Ariel Query Language (AQL) query expressions. A search_id is returned with the search results. Searches are executed asynchronously. In subsequent API calls, you can use this search_id to determine the status of the search and retrieve the results. 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, though the start_time and end_time parameters take precedence. For further information, see the AQL Reference Guide.

POST /ariel/searches resource details

Table 849: POST /ariel/searches resource details

MIME Type
application/json

POST /ariel/searches request parameter details

Table 850: 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.
retention_time_msec	query	Optional	Long	text/plain	null
start_time	query	Optional	Long	text/plain	Optional. The beginning of the query time interval in milliseconds since 0:00:00 1/1/1970. This value takes precedence over queryExpression.
end_time	query	Optional	Long	text/plain	Optional. The end of the query time interval in milliseconds since 0:00:00 1/1/1970. This value takes precedence over queryExpression.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /ariel/searches response codes

Table 851: POST /ariel/searches response codes

HTTP Response Code	Unique Code	Description
201		An Ariel search was successfully created.
409	1004	The search could not be created, because the search_id is already in use. Use a unique search_id.
422	2000	The query_expression contains invalid AQL syntax.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to create a 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 search criteria matches the criteria of an existing search, the response message returns a reference to the original search_id and a new search is not created.

Response Sample

```

{
  "compressed_data_file_count": 42,
  "compressed_data_total_size": 42,
  "cursor_id": "String",
  "data_file_count": 42,
  "data_total_size": 42,
  "desired_retention_time_msec": 42,
  "error_messages": [
    {
      "code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
        ERROR_READ_TIMEOUT,
        ERROR_INVALID_QUERY_PARAMS,
        WARN_QUERY_TIME_LIMIT,
        ERROR_GENERAL_FAILURE,
        ERROR_FILE_RUNTIME_EXCEPTION,
        ERROR_INVALID_QUERY,
        WARN_CANCEL,
        INFO_INVALID_SORTING,
        ERROR_FETCH,
        WARN_SHARING_VIOLATION,
        WARN_INCOMPLETE_RESULT,
        ERROR_QUERY_EXPIRED,
        INFO_MAINTENANCE,
        ERROR_COULD_NOT_CONNECT,
        ERROR_RB_COMMUNICATION,
        ERROR_RB_SOURCE_DATABLOCK_SEND,
        ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
        NEXUS_ERROR>",
      "contexts": [
        "String"
      ],
      "message": "String",
      "severity": "String <one of: INFO, WARN, ERROR>"
    }
  ],
  "index_file_count": 42,
  "index_total_size": 42,
  "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} DEPRECATED

Delete an Ariel search.

Deletes an Ariel search. This discards collected results and stops the search if it in progress. This search is deleted regardless of whether the results were saved.

DELETE /ariel/searches/{search_id} resource details

Table 852: DELETE /ariel/searches/{search_id} resource details

MIME Type
application/json

DELETE /ariel/searches/{search_id} request parameter details

Table 853: 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.

DELETE /ariel/searches/{search_id} response codes

Table 854: 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.

Response Sample

```
{
  "error_messages": [
    {
      "code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
        ERROR_READ_TIMEOUT,
        ERROR_INVALID_QUERY_PARAMS,
        WARN_QUERY_TIME_LIMIT,
        ERROR_GENERAL_FAILURE,
```

```

        ERROR_FILE_RUNTIME_EXCEPTION,
        ERROR_INVALID_QUERY,
        WARN_CANCEL,
        INFO_INVALID_SORTING,
        ERROR_FETCH,
        WARN_SHARING_VIOLATION,
        WARN_INCOMPLETE_RESULT,
        ERROR_QUERY_EXPIRED,
        INFO_MAINTENANCE,
        ERROR_COULD_NOT_CONNECT,
        ERROR_RB_COMMUNICATION,
        ERROR_RB_SOURCE_DATABLOCK_SEND,
        ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
        NEXUS_ERROR>" ,

    "contexts": [
        "String"
    ],
    "message": "String",
    "severity": "String <one of: INFO, WARN, ERROR>"
  }
]
}

```

GET /ariel/searches/{search_id}

Retrieve information about an 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 in progress or is complete.

GET /ariel/searches/{search_id} resource details

Table 855: GET /ariel/searches/{search_id} resource details

MIME Type
application/json

GET /ariel/searches/{search_id} request parameter details

Table 856: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /ariel/searches/{search_id} response codes

Table 857: 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 the search status.

Response Sample

```
{
  "compressed_data_file_count": 42,
  "compressed_data_total_size": 42,
  "cursor_id": "String",
  "data_file_count": 42,
  "data_total_size": 42,
  "desired_retention_time_msec": 42,
  "error_messages": [
    {
      "code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
        ERROR_READ_TIMEOUT,
        ERROR_INVALID_QUERY_PARAMS,
        WARN_QUERY_TIME_LIMIT,
        ERROR_GENERAL_FAILURE,
        ERROR_FILE_RUNTIME_EXCEPTION,
        ERROR_INVALID_QUERY,
        WARN_CANCEL,
        INFO_INVALID_SORTING,
        ERROR_FETCH,
        WARN_SHARING_VIOLATION,
        WARN_INCOMPLETE_RESULT,
        ERROR_QUERY_EXPIRED,
        INFO_MAINTENANCE,
        ERROR_COULD_NOT_CONNECT,
        ERROR_RB_COMMUNICATION,
        ERROR_RB_SOURCE_DATABLOCK_SEND,
        ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
        NEXUS_ERROR>",
      "contexts": [
        "String"
      ],
      "message": "String",
    }
  ]
}
```

```

        "severity": "String <one of: INFO, WARN, ERROR>"
    }
},
"index_file_count": 42,
"index_total_size": 42,
"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.

Update details for an Ariel search. You can update searches in the following ways:

- To cancel an active search, set 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 by using the DELETE /searches/{search_id} endpoint.



Note

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

POST /ariel/searches/{search_id} resource details

Table 858: POST /ariel/searches/{search_id} resource details

MIME Type
application/json

POST /ariel/searches/{search_id} request parameter details

Table 859: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /ariel/searches/{search_id} response codes

Table 860: 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.
409	1008	The current status of the search prevented the search results from being saved.
422	1005	A request parameter is not valid.
500	1020	An error occurred while attempting to update the search.

Response Description

Information about the specified search that was updated.

Response Sample

```
{
  "compressed_data_file_count": 42,
  "compressed_data_total_size": 42,
  "cursor_id": "String",
  "data_file_count": 42,
  "data_total_size": 42,
  "desired_retention_time_msec": 42,
  "error_messages": [
    {

```

```

"code": "String <one of: ERROR_FILE_ACCESS,
        ERROR_CURSOR_CREATE,
        ERROR_CURSOR_CREATE_EXISTS,
        WARN_MAX_RECORDS,
        WARN_MAX_COLLECTED_RECORDS,
        ERROR_INVALID_CURSOR,
        ERROR_PROTECT_CURSOR,
        ERROR_SERVER_IO,
        WARN_INTERRUPT,
        ERROR_READ_TIMEOUT,
        ERROR_INVALID_QUERY_PARAMS,
        WARN_QUERY_TIME_LIMIT,
        ERROR_GENERAL_FAILURE,
        ERROR_FILE_RUNTIME_EXCEPTION,
        ERROR_INVALID_QUERY,
        WARN_CANCEL,
        INFO_INVALID_SORTING,
        ERROR_FETCH,
        WARN_SHARING_VIOLATION,
        WARN_INCOMPLETE_RESULT,
        ERROR_QUERY_EXPIRED,
        INFO_MAINTENANCE,
        ERROR_COULD_NOT_CONNECT,
        ERROR_RB_COMMUNICATION,
        ERROR_RB_SOURCE_DATABLOCK_SEND,
        ERROR_RB_DESTINATION_DATABLOCK_RECEIVE,
        NEXUS_ERROR>",

"contexts": [
  "String"
],
"message": "String",
"severity": "String <one of: INFO, WARN, ERROR>"
}
},
"index_file_count": 42,
"index_total_size": 42,
"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}/results DEPRECATED

Retrieves search results in the requested format.

Retrieve the results of the Ariel search that is identified by the `search_id`. The results are returned in the format that is indicated in 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. This end-point works with query results that are generated by AQL query expressions, but it might not work as expected for results that are generated by other means. Search results might not be retrievable for searches that are created on

the Console. The response samples are for the following query: Select sourceIP, destinationIP from events

GET /ariel/searches/{search_id}/results resource details

Table 861: GET /ariel/searches/{search_id}/results resource details

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

GET /ariel/searches/{search_id}/results request parameter details

Table 862: 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.
range_start	query	Optional	Integer	text/plain	The first row of the range of records to return, starting from one (1).
range_end	query	Optional	Integer	text/plain	The last row of the range of records to be return.

GET /ariel/searches/{search_id}/results response codes

Table 863: 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 were not found, because 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 is specified in the Accept header for this request.

Response Sample

```
{
  "events": [
    {
      "sourceIP": "1.1.1.1",
      "destinationIP": "127.0.0.1"
    },
    {
      "sourceIP": "1.1.1.1",
```



```

    "destinationIP": "127.0.0.1"
  }
]
}

```

Asset Model endpoints

Use the references for REST API V2 Asset Model endpoints.

POST /asset_model/assets/{asset_id}

Update an asset with several pertinent pieces of information.

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.

POST /asset_model/assets/{asset_id} resource details

Table 864: POST /asset_model/assets/{asset_id} resource details

MIME Type
text/plain

POST /asset_model/assets/{asset_id} request parameter details

Table 865: 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.

POST /asset_model/assets/{asset_id} request body details

Table 866: POST /asset_model/assets/{asset_id} request body details

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

POST /asset_model/assets/{asset_id} response codes

Table 867: 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/assets

List all assets found in the model.

List all assets found in the model.

GET /asset_model/assets resource details

Table 868: GET /asset_model/assets resource details

MIME Type
application/json

GET /asset_model/assets request parameter details

Table 869: GET /asset_model/assets request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /asset_model/assets response codes

Table 870: 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":
    [{
      "first_seen_scanner": 42,
      "id": 42,
      "first_seen_profiler": 42,
      "created": 42,
      "last_seen_profiler": 42,
      "last_seen_scanner": 42,
      "mac_address": "String",
      "ip_addresses":
        [{
          "first_seen_scanner": 42,
          "id": 42,
          "first_seen_profiler": 42,
          "created": 42,

```

```

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

```

GET /asset_model/properties

Get a list of available asset property types that can be used.

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

GET `/asset_model/properties` resource details

Table 871: GET `/asset_model/properties` resource details

MIME Type
application/json

GET `/asset_model/properties` request parameter details

Table 872: GET /asset_model/properties request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /asset_model/properties response codes

Table 873: 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.

Get a list of saved searches that can be used or applied against the `/asset_model/saved_searches/{saved_search_id}/results` query.

GET `/asset_model/saved_searches` resource details

Table 874: GET `/asset_model/saved_searches` resource details

MIME Type
application/json

GET `/asset_model/saved_searches` request parameter details

Table 875: GET `/asset_model/saved_searches` request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET `/asset_model/saved_searches` response codes

Table 876: 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"
    }
  ],
  "description": "String",
  "filters": [
    {
      "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.

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

GET /asset_model/saved_searches/{saved_search_id}/results resource details

Table 877: GET /asset_model/saved_searches/{saved_search_id}/results resource details

MIME Type
application/json

GET /asset_model/saved_searches/{saved_search_id}/results request parameter details

Table 878: 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.
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /asset_model/saved_searches/{saved_search_id}/results response codes

Table 879: 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 V2 authentication endpoints.

POST /auth/logout

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

POST /auth/logout resource details

Table 880: POST /auth/logout resource details

MIME Type
text/plain

There are no parameters for this endpoint.

POST /auth/logout response codes

Table 881: POST /auth/logout response codes

HTTP Response Code	Unique Code	Description
200		The session was invalidated.

Response Description

Returns true. Throws exception upon failure.

Response Sample

```
true
```

Help endpoints

Use the references for REST API V3.1 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

GET /help/capabilities resource details

Table 882: GET /help/capabilities resource details

MIME Type
application/json

GET /help/capabilities request parameter details

Table 883: GET /help/capabilities request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
categories	query	Optional	String[]	application/json	Restrict your search to this list of capabilities
paths	query	Optional	String[]	application/json	Restrict your search to these paths only
httpMethods	query	Optional	String[]	application/json	Restrict your search to these HTTP methods
version	query	Optional	String	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)
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.

GET /help/capabilities response codes

Table 884: GET /help/capabilities response codes

HTTP Response Code	Unique Code	Description
200		The API capabilities list was retrieved.
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 Description

Endpoints you are able to access, mapped against versions they belong to. If full content is not requested, values will be null.

Response Sample

```
{
  "categories": [
    {
      "apis": [
        {
          "httpMethod": "String <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": "String",
  "parameters": [
    {
      "allowMultiple": true,
      "defaultValue": "String",
      "description": "String",
      "name": "String",
      "pathIndex": 42,
      "required": true,
      "source": "String",
      "supportedContentTypes": [
        {
          "dataType": "String",
          "mimeType": "String",
          "sample": "String"
        }
      ]
    }
  ],
  "removalTarget": "String",
  "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": "String",

```

```

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

```

Extreme Security Vulnerability Manager endpoints

Use the references for REST API V2 Extreme Security 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

GET /qvm/assets resource details

Table 885: GET /qvm/assets resource details

MIME Type
application/json

GET /qvm/assets request parameter details

Table 886: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/assets response codes

Table 887: 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*

Get a list of the allowable 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

GET /qvm/filters resource details

Table 888: GET /qvm/filters resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /qvm/filters response codes

Table 889: 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 will contain all available RESTful resources

GET /qvm/network resource details

Table 890: GET /qvm/network resource details

MIME Type
application/json

GET /qvm/network request parameter details

Table 891: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/network response codes

Table 892: 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 openservices present in the asset model with vulnerabilities present.

The response will contain all available RESTful resources

GET /qvm/openservices resource details

Table 893: GET /qvm/openservices resource details

MIME Type
application/json

GET /qvm/openservices request parameter details

Table 894: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/openservices response codes

Table 895: 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

GET /qvm/savedsearches resource details

Table 896: GET /qvm/savedsearches resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /qvm/savedsearches response codes

Table 897: 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. Per saved search: id, name and list fo filters that make up this saved search

Response Sample*POST /qvm/tickets/assign*

Update the remediation ticket for the assigned vulnerability.

POST /qvm/tickets/assign resource details

Table 898: POST /qvm/tickets/assign resource details

MIME Type
application/json

POST /qvm/tickets/assign request body details

Table 899: POST /qvm/tickets/assign request body details

Parameter	Data Type	MIME Type	Description	Sample
ticket	TicketUpdate	application/json	'ticketId': required 'priority' one of required : Critical, Major, Minor, Warning, Informational 'status' one of required : Opened, Fixed, Re-Opened, Closed 'dueDate' Optional : yyyy-MM-dd HH:mm:ss 'assignedUser' required : valid Qradar user account name or a valid email 'commentUser' Optional : valid Qradar user account name, if not included will default current API user.	<pre>[{ "ticketId":"1000", "status":"Opened", "priority":"Critical", "dueDate":"2015-01-04 12:00:00", "assignedUser":"admin", "comment":"testComment", "commentUser":"admin" }]</pre>

POST /qvm/tickets/assign response codes

Table 900: 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 will contain all available RESTful resources

GET /qvm/vulninstances resource details

Table 901: GET /qvm/vulninstances resource details

MIME Type
application/json

GET /qvm/vulninstances request parameter details

Table 902: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/vulninstances response codes

Table 903: 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 will contain all available RESTful resources

GET /qvm/vulns resource details

Table 904: GET /qvm/vulns resource details

MIME Type
application/json

GET /qvm/vulns request parameter details

Table 905: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/vulns response codes

Table 906: 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 V2 Reference Data endpoints.

GET /reference_data/map_of_sets

Retrieve a list of all reference map of sets.

Retrieve a list of all reference map of sets.

GET /reference_data/map_of_sets resource details

Table 907: GET /reference_data/map_of_sets resource details

MIME Type
application/json

GET /reference_data/map_of_sets request parameter details

Table 908: GET /reference_data/map_of_sets request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/map_of_sets response codes

Table 909: 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"
  }
]

```

DELETE /reference_data/map_of_sets/{name}

Remove a map of sets or purge its contents.

Remove a map of sets or purge its contents.

DELETE /reference_data/map_of_sets/{name} resource details

Table 910: DELETE /reference_data/map_of_sets/{name} resource details

MIME Type
application/json

DELETE /reference_data/map_of_sets/{name} request parameter details

Table 911: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/map_of_sets/{name} response codes

Table 912: 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
404	1002	The reference map of sets does not exist
409	1004	The reference map of sets could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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"
}
```

GET /reference_data/map_of_sets/{name}

Return the reference map of sets identified by name.

Return the reference map of sets identified by **name**. If provided, **limit** specifies the number of records to return starting at record specified by **offset**. If not specified, then the first 20 records will be returned.

GET /reference_data/map_of_sets/{name} resource details

Table 913: GET /reference_data/map_of_sets/{name} resource details

MIME Type
application/json

GET /reference_data/map_of_sets/{name} request parameter details

Table 914: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/map_of_sets/{name} response codes

Table 915: 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": {
    "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"
}

```

DELETE /reference_data/map_of_sets/{name}/{key}

Remove a value from a reference map of sets.

Remove a value from a reference map of sets.

DELETE /reference_data/map_of_sets/{name}/{key} resource details

Table 916: DELETE /reference_data/map_of_sets/{name}/{key} resource details

MIME Type
application/json

DELETE /reference_data/map_of_sets/{name}/{key} request parameter details

Table 917: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/map_of_sets/{name}/{key} response codes

Table 918: 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
404	1002	The reference map of sets does not exist
404	1003	The record does not exist in the reference map of sets
422	1005	A request parameter is not valid
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"
}
```

POST /reference_data/map_of_sets/{name}

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

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

POST /reference_data/map_of_sets/{name} resource details

Table 919: POST /reference_data/map_of_sets/{name} resource details

MIME Type
application/json

POST /reference_data/map_of_sets/{name} request parameter details

Table 920: 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

Table 920: POST /reference_data/map_of_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 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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/map_of_sets/{name} response codes

Table 921: 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"
}
```

POST /reference_data/map_of_sets

Create a new reference map of sets.

Create a new reference map of sets.

POST /reference_data/map_of_sets resource details

Table 922: POST /reference_data/map_of_sets resource details

MIME Type
application/json

POST /reference_data/map_of_sets request parameter details

Table 923: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/map_of_sets response codes

Table 924: POST /reference_data/map_of_sets response codes

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created
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.

Table 924: POST /reference_data/map_of_sets 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 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/maps

Retrieve a list of all reference maps.

Retrieve a list of all reference maps.

GET /reference_data/maps resource details

Table 925: GET /reference_data/maps resource details

MIME Type
application/json

GET /reference_data/maps request parameter details

Table 926: GET /reference_data/maps request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/maps response codes

Table 927: 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"
  }
]
```

DELETE /reference_data/maps/{name}

Remove a reference map or purge its contents.

Remove a reference map or purge its contents.

DELETE /reference_data/maps/{name} resource details

Table 928: DELETE /reference_data/maps/{name} resource details

MIME Type
application/json

DELETE /reference_data/maps/{name} request parameter details

Table 929: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/maps/{name} response codes

Table 930: 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
404	1002	The reference map does not exist
409	1004	The reference map could not be deleted, it is being used by other objects.

Table 930: DELETE /reference_data/maps/{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 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"
}
```

GET /reference_data/maps/{name}

Retrieve the reference map identified by name.

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

GET /reference_data/maps/{name} resource details

Table 931: GET /reference_data/maps/{name} resource details

MIME Type
application/json

GET /reference_data/maps/{name} request parameter details

Table 932: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.

Table 932: GET /reference_data/maps/{name} request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
offset	query	Optional	Long	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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/maps/{name} response codes

Table 933: 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": {
    "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"
  }

```

DELETE /reference_data/maps/{name}/{key}

Remove a value from a reference map.

Remove a value from a reference map.

DELETE /reference_data/maps/{name}/{key} resource details

Table 934: DELETE /reference_data/maps/{name}/{key} resource details

MIME Type
application/json

DELETE /reference_data/maps/{name}/{key} request parameter details

Table 935: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/maps/{name}/{key} response codes

Table 936: DELETE /reference_data/maps/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed
404	1002	The reference map does not exist
404	1003	The record does not exist in the reference map

Table 936: DELETE /reference_data/maps/{name}/{key} 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 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"
}
```

POST /reference_data/maps/{name}

Add or update an element in a reference map.

Add or update an element in a reference map.

POST /reference_data/maps/{name} resource details

Table 937: POST /reference_data/maps/{name} resource details

MIME Type
application/json

POST /reference_data/maps/{name} request parameter details

Table 938: 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 938: 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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/maps/{name} response codes

Table 939: 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"
}
```

POST /reference_data/maps

Create a new reference map.

Create a new reference map.

POST /reference_data/maps resource details

Table 940: POST /reference_data/maps resource details

MIME Type
application/json

POST /reference_data/maps request parameter details

Table 941: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/maps response codes

Table 942: POST /reference_data/maps response codes

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.
422	1005	parameters were invalid
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"
}
```

POST /reference_data/sets/bulk_load/{name}

Add or update data in a reference set.

Add or update data in a reference set.

POST /reference_data/sets/bulk_load/{name} resource details

Table 943: POST /reference_data/sets/bulk_load/{name} resource details

MIME Type
application/json

POST /reference_data/sets/bulk_load/{name} request parameter details

Table 944: 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
fields	header	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/sets/bulk_load/{name} request body details

Table 945: POST /reference_data/sets/bulk_load/{name} request body details

Parameter	Data Type	MIME Type	Description	Sample
data	InputStream	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"]

POST /reference_data/sets/bulk_load/{name} response codes

Table 946: 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
400	1001	An error occurred parsing the JSON formatted message body
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

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

Retrieve a list of all reference sets.

Retrieve a list of all reference sets.

GET /reference_data/sets resource details

Table 947: GET /reference_data/sets resource details

MIME Type
application/json

GET /reference_data/sets request parameter details

Table 948: GET /reference_data/sets request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/sets response codes

Table 949: 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>"
  }
]
```

DELETE /reference_data/sets/{name}

Remove a reference set or purge its contents.

Remove a reference set or purge its contents.

DELETE /reference_data/sets/{name} resource details

Table 950: DELETE /reference_data/sets/{name} resource details

MIME Type
application/json

DELETE /reference_data/sets/{name} request parameter details

Table 951: 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
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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/sets/{name} response codes

Table 952: 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
404	1002	The reference set does not exist
409	1004	The reference set could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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>"
}
```

GET /reference_data/sets/{name}

Retrieve the reference set identified by name.

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

GET /reference_data/sets/{name} resource details

Table 953: GET /reference_data/sets/{name} resource details

MIME Type
application/json

GET /reference_data/sets/{name} request parameter details

Table 954: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/sets/{name} response codes

Table 955: 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"
    }
  ],
  "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.

Add or update an element in a reference set.

POST /reference_data/sets/{name} resource details

Table 956: POST /reference_data/sets/{name} resource details

MIME Type
application/json

POST /reference_data/sets/{name} request parameter details

Table 957: 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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/sets/{name} response codes

Table 958: 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}/{value}

Remove a value from a reference set.

Remove a value from a reference set.

DELETE /reference_data/sets/{name}/{value} resource details

Table 959: DELETE /reference_data/sets/{name}/{value} resource details

MIME Type
application/json

DELETE /reference_data/sets/{name}/{value} request parameter details

Table 960: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/sets/{name}/{value} response codes

Table 961: DELETE /reference_data/sets/{name}/{value} response codes

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed
404	1002	The reference set does not exist
404	1003	The record does not exist in the reference set
422	1005	A request parameter is not valid
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>"
}
```

POST /reference_data/sets

Create a new reference set.

Create a new reference set.

POST /reference_data/sets resource details

Table 962: POST /reference_data/sets resource details

MIME Type
application/json

POST /reference_data/sets request parameter details

Table 963: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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.

Table 963: POST /reference_data/sets request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
time_to_live	query	Optional	String	text/plain	Optional - The time to live interval, for example: "1 month" or "5 minutes"
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/sets response codes

Table 964: POST /reference_data/sets response codes

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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>"
}
```

GET /reference_data/tables

Retrieve a list of all reference tables.

Retrieve a list of all reference tables.

GET /reference_data/tables resource details

Table 965: GET /reference_data/tables resource details

MIME Type
application/json

GET /reference_data/tables request parameter details

Table 966: GET /reference_data/tables request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/tables response codes

Table 967: 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": {
      "String": "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.

Remove a reference table or purge its contents.

DELETE /reference_data/tables/{name} resource details

Table 968: DELETE /reference_data/tables/{name} resource details

MIME Type
application/json

DELETE /reference_data/tables/{name} request parameter details

Table 969: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/tables/{name} response codes

Table 970: 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
404	1002	The reference table does not exist
409	1004	The reference table could not be deleted, it is being used by other objects.

Table 970: DELETE /reference_data/tables/{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 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": {
    "String": "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 name.

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

GET /reference_data/tables/{name} resource details

Table 971: GET /reference_data/tables/{name} resource details

MIME Type
application/json

GET /reference_data/tables/{name} request parameter details

Table 972: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.

Table 972: GET /reference_data/tables/{name} request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
offset	query	Optional	Long	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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /reference_data/tables/{name} response codes

Table 973: 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": {
    "String": {
      "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",
  "key_name_types": {
    "String": "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.

Remove a value from a reference table.

DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} resource details

Table 974: DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} resource details

MIME Type
application/json

DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} request parameter details

Table 975: 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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

DELETE /reference_data/tables/{name}/{outer_key}/{inner_key} response codes

Table 976: 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
404	1002	The reference table does not exist
404	1003	The record does not exist in the reference table
422	1005	A request parameter is not valid
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": {
    "String": "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.

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

POST /reference_data/tables/{name} resource details

Table 977: POST /reference_data/tables/{name} resource details

MIME Type
application/json

POST /reference_data/tables/{name} request parameter details

Table 978: 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
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'
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/tables/{name} response codes

Table 979: 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": {
      "String": "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.

Create a new reference table.

POST /reference_data/tables resource details

Table 980: POST /reference_data/tables resource details

MIME Type
application/json

POST /reference_data/tables request parameter details

Table 981: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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 981: POST /reference_data/tables request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
key_name_types	query	Optional	KeyNameType[]	application/json	Optional - A JSON formatted string. This array creates the inner key names and corresponding value types for the table
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

POST /reference_data/tables response codes

Table 982: POST /reference_data/tables response codes

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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": {
    "String": "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 /referencedata/mapOfSets DEPRECATED

Retrieve a list of all reference map of sets

GET /referencedata/mapOfSets resource details

Table 983: GET /referencedata/mapOfSets resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/mapOfSets response codes

Table 984: GET /referencedata/mapOfSets 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

```
[
  {
    "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
  }
]
```

DELETE /referencedata/mapOfSets/{name} DEPRECATED

Remove a map of sets or purge its contents

DELETE /referencedata/mapOfSets/{name} resource details

Table 985: DELETE /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

DELETE /referencedata/mapOfSets/{name} request parameter details

Table 986: 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.

DELETE /referencedata/mapOfSets/{name} response codes

Table 987: 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
404	1002	The reference map of sets does not exist
409	1004	The reference map of sets could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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": 139837702319,
```



```

"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} DEPRECATED

Return the reference map of sets identified by **name**. If provided, **limit** specifies the number of records to return starting at record specified by **offset**. If not specified, then the first 20 records will be returned.

GET /referencedata/mapOfSets/{name} resource details

Table 988: GET /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

GET /referencedata/mapOfSets/{name} request parameter details

Table 989: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/mapOfSets/{name} response codes

Table 990: 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
    }
  ]
}

```

DELETE /referencedata/mapOfSets/{name}/{key} DEPRECATED

Remove a value from a reference map of sets

DELETE /referencedata/mapOfSets/{name}/{key} resource details

Table 991: DELETE /referencedata/mapOfSets/{name}/{key} resource details

MIME Type
application/json

DELETE /referencedata/mapOfSets/{name}/{key} request parameter details

Table 992: 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.

DELETE /referencedata/mapOfSets/{name}/{key} response codes

Table 993: DELETE /referencedata/mapOfSets/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map of sets has had a value removed
404	1002	The reference map of sets does not exist
404	1003	The record does not exist in the reference map of sets
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/mapOfSets/{name} DEPRECATED

Add or update an element in a reference map of sets

POST /referencedata/mapOfSets/{name} resource details

Table 994: POST /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

POST /referencedata/mapOfSets/{name} request parameter details

Table 995: 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

Table 995: POST /referencedata/mapOfSets/{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 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'

POST /referencedata/mapOfSets/{name} response codes

Table 996: POST /referencedata/mapOfSets/{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

```
{
  "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
}
```

POST /referencedata/mapOfSets *DEPRECATED*

Create a new reference map of sets

POST /referencedata/mapOfSets resource details

Table 997: POST /referencedata/mapOfSets resource details

MIME Type
application/json

POST /referencedata/mapOfSets request parameter details

Table 998: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/mapOfSets response codes

Table 999: POST /referencedata/mapOfSets response codes

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created
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.
422	1005	A request parameter is not valid
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": 139837702319,
```

```

"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 DEPRECATED

Retrieve a list of all reference maps

GET /referencedata/maps resource details

Table 1000: GET /referencedata/maps resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/maps response codes

Table 1001: 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
    }
  ]

```

DELETE /referencedata/maps/{name} DEPRECATED

Remove a reference map or purge its contents

DELETE /referencedata/maps/{name} resource details

Table 1002: DELETE /referencedata/maps/{name} resource details

MIME Type
application/json

DELETE /referencedata/maps/{name} request parameter details

Table 1003: 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.

DELETE /referencedata/maps/{name} response codes

Table 1004: 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
404	1002	The reference map does not exist

Table 1004: DELETE /referencedata/maps/{name} response codes (continued)

HTTP Response Code	Unique Code	Description
409	1004	The reference map could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/maps/{name} DEPRECATED

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

GET /referencedata/maps/{name} resource details

Table 1005: GET /referencedata/maps/{name} resource details

MIME Type
application/json

GET /referencedata/maps/{name} request parameter details

Table 1006: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/maps/{name} response codes

Table 1007: 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
    }
  }
}

```

DELETE /referencedata/maps/{name}/{key} DEPRECATED

Remove a value from a reference map

DELETE /referencedata/maps/{name}/{key} resource details

Table 1008: DELETE /referencedata/maps/{name}/{key} resource details

MIME Type
application/json

DELETE /referencedata/maps/{name}/{key} request parameter details

Table 1009: 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.

DELETE /referencedata/maps/{name}/{key} response codes

Table 1010: DELETE /referencedata/maps/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed
404	1002	The reference map does not exist
404	1003	The record does not exist in the reference map
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/maps/{name} DEPRECATED

Add or update an element in a reference map

POST /referencedata/maps/{name} resource details

Table 1011: POST /referencedata/maps/{name} resource details

MIME Type
application/json

POST /referencedata/maps/{name} request parameter details

Table 1012: 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'

POST /referencedata/maps/{name} response codes

Table 1013: 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
}
```

POST /referencedata/maps DEPRECATED

Create a new reference map

POST /referencedata/maps resource details

Table 1014: POST /referencedata/maps resource details

MIME Type
application/json

POST /referencedata/maps request parameter details

Table 1015: 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

Table 1015: POST /referencedata/maps request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
elementType	query	Required	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/maps response codes

Table 1016: POST /referencedata/maps response codes

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.
422	1005	parameters were invalid
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
}
```

POST /referencedata/sets/bulkLoad/{name} DEPRECATED

Add or update data in a reference set

POST /referencedata/sets/bulkLoad/{name} resource details

Table 1017: POST /referencedata/sets/bulkLoad/{name} resource details

MIME Type
application/json

POST /referencedata/sets/bulkLoad/{name} request parameter details

Table 1018: 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

POST /referencedata/sets/bulkLoad/{name} request body details

Table 1019: POST /referencedata/sets/bulkLoad/{name} request body details

Parameter	Data Type	MIME Type	Description	Sample
data	InputStream	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"]

POST /referencedata/sets/bulkLoad/{name} response codes

Table 1020: POST /referencedata/sets/bulkLoad/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference set has had data added or updated
400	1001	An error occurred parsing the JSON formatted message body
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

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": 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
}
```

GET /referencedata/sets DEPRECATED

Retrieve a list of all reference sets.

GET /referencedata/sets resource details

Table 1021: GET /referencedata/sets resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/sets response codes

Table 1022: 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>"
  }
]
```

DELETE /referencedata/sets/{name} DEPRECATED

Remove a reference set or purge its contents

DELETE /referencedata/sets/{name} resource details

Table 1023: DELETE /referencedata/sets/{name} resource details

MIME Type
application/json

DELETE /referencedata/sets/{name} request parameter details

Table 1024: 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.

DELETE /referencedata/sets/{name} response codes

Table 1025: 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
404	1002	The reference set does not exist
409	1004	The reference set could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/sets/{name} DEPRECATED

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

GET /referencedata/sets/{name} resource details

Table 1026: GET /referencedata/sets/{name} resource details

MIME Type
application/json

GET /referencedata/sets/{name} request parameter details

Table 1027: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/sets/{name} response codes

Table 1028: 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} DEPRECATED

Add or update an element in a reference set

POST /referencedata/sets/{name} resource details

Table 1029: POST /referencedata/sets/{name} resource details

MIME Type
application/json

POST /referencedata/sets/{name} request parameter details

Table 1030: 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'

POST /referencedata/sets/{name} response codes

Table 1031: 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}/{value} DEPRECATED

Remove a value from a reference set

DELETE /referencedata/sets/{name}/{value} resource details

Table 1032: DELETE /referencedata/sets/{name}/{value} resource details

MIME Type
application/json

DELETE /referencedata/sets/{name}/{value} request parameter details

Table 1033: 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.

DELETE /referencedata/sets/{name}/{value} response codes

Table 1034: DELETE /referencedata/sets/{name}/{value} response codes

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed
404	1002	The reference set does not exist
404	1003	The record does not exist in the reference set
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/sets *DEPRECATED*

Create a new reference set

POST /referencedata/sets resource details

Table 1035: POST /referencedata/sets resource details

MIME Type
application/json

POST /referencedata/sets request parameter details

Table 1036: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/sets response codes

Table 1037: POST /referencedata/sets response codes

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/tables DEPRECATED

Retrieve a list of all reference tables

GET /referencedata/tables resource details

Table 1038: GET /referencedata/tables resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/tables response codes

Table 1039: 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>"
    }
  }
}
]

```

DELETE /referencedata/tables/{name} DEPRECATED

Remove a reference table or purge its contents

DELETE /referencedata/tables/{name} resource details

Table 1040: DELETE /referencedata/tables/{name} resource details

MIME Type
application/json

DELETE /referencedata/tables/{name} request parameter details

Table 1041: 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.

DELETE /referencedata/tables/{name} response codes

Table 1042: 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
404	1002	The reference table does not exist
409	1004	The reference table could not be deleted, it is being used by other objects.

Table 1042: DELETE /referencedata/tables/{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 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>"
  }
}
```

GET /referencedata/tables/{name} DEPRECATED

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

GET /referencedata/tables/{name} resource details

Table 1043: GET /referencedata/tables/{name} resource details

MIME Type
application/json

GET /referencedata/tables/{name} request parameter details

Table 1044: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/tables/{name} response codes

Table 1045: 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": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String2": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      }
    },
    "String1": {
      "String1": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String2": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String3": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      }
    }
  }
}

```

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} DEPRECATED

Remove a value from a reference table

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details

Table 1046: DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details

MIME Type
application/json

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} request parameter details

Table 1047: 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.

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes

Table 1048: DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes

HTTP Response Code	Unique Code	Description
200		The reference table had had a value removed
404	1002	The reference table does not exist
404	1003	The record does not exist in the reference table
422	1005	A request parameter is not valid
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>"
  }
}
```

```

    }
  }
}

```

POST /referencedata/tables/{name} DEPRECATED

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

POST /referencedata/tables/{name} resource details

Table 1049: POST /referencedata/tables/{name} resource details

MIME Type
application/json

POST /referencedata/tables/{name} request parameter details

Table 1050: 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'

POST /referencedata/tables/{name} response codes

Table 1051: 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>"
  }
}
```

POST /referencedata/tables DEPRECATED

Create a new reference table

POST /referencedata/tables resource details

Table 1052: POST /referencedata/tables resource details

MIME Type
application/json

POST /referencedata/tables request parameter details

Table 1053: 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	ReferenceDataType	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 keyNameTypes 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

Table 1053: POST /referencedata/tables request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
timeoutType	query	Optional	ReferenceDataTimeoutType	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	KeyNameType[]	application/json	Optional - A JSON formatted string. This array creates the inner key names and corresponding value types for the table

POST /referencedata/tables response codes

Table 1054: POST /referencedata/tables response codes

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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>"
  }
}
```

Scanner endpoints

Use the references for REST API V4 scanner endpoints.

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 e.g. {'name':'New Scan Profile', 'ips':['10.100.85.135']}

POST /scanner/profiles/create resource details

Table 1055: POST /scanner/profiles/create resource details

MIME Type
text/plain

POST /scanner/profiles/create request body details

Table 1056: POST /scanner/profiles/create request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	null

POST /scanner/profiles/create response codes

Table 1057: 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

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

GET /scanner/profiles resource details

Table 1058: GET /scanner/profiles resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /scanner/profiles response codes

Table 1059: 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 QVM

Response Sample

POST /scanner/profiles/start

Initiates a request to start an already created scanProfile. The request takes one parameter - scanProfileId. To get a list of scanProfileIds, simply 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.

POST /scanner/profiles/start resource details

Table 1060: POST /scanner/profiles/start resource details

MIME Type
text/plain

POST /scanner/profiles/start request parameter details

Table 1061: 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

POST /scanner/profiles/start response codes

Table 1062: 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

GET /scanner/scanprofiles resource details

Table 1063: GET /scanner/scanprofiles resource details

MIME Type
application/json

GET /scanner/scanprofiles request parameter details

Table 1064: GET /scanner/scanprofiles request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /scanner/scanprofiles response codes

Table 1065: 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 QVM

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 e.g. `{'name':'New Scan Profile', 'ips':['10.100.85.135']}`

POST /scanner/scanprofiles resource details

Table 1066: POST /scanner/scanprofiles resource details

MIME Type
text/plain

POST /scanner/scanprofiles request body details

Table 1067: POST /scanner/scanprofiles request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	<code>{ "description": "String", "hosts": ["String"], "name": "String" }</code>

POST /scanner/scanprofiles response codes

Table 1068: 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. The request takes one parameter - the Scan Profile ID.

DELETE /scanner/scanprofiles/{profileid} resource details

Table 1069: DELETE /scanner/scanprofiles/{profileid} resource details

MIME Type
text/plain

DELETE /scanner/scanprofiles/{profileid} request parameter details

Table 1070: DELETE /scanner/scanprofiles/{profileid} request parameter details

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

DELETE /scanner/scanprofiles/{profileid} response codes

Table 1071: 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 - schedule - status - progress - lastRunTime - duration

GET /scanner/scanprofiles/{profileid} resource details

Table 1072: GET /scanner/scanprofiles/{profileid} resource details

MIME Type
application/json

GET /scanner/scanprofiles/{profileid} request parameter details

Table 1073: 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
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /scanner/scanprofiles/{profileid} response codes

Table 1074: 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 QVM

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. One parameter is required, the Scan Profile ID. The following information on a scan profile can be updated - scanProfileName - description - ips

POST /scanner/scanprofiles/{profileid} resource details

Table 1075: POST /scanner/scanprofiles/{profileid} resource details

MIME Type
application/json

POST /scanner/scanprofiles/{profileid} request parameter details

Table 1076: 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

POST /scanner/scanprofiles/{profileid} request body details

Table 1077: POST /scanner/scanprofiles/{profileid} request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	null

POST /scanner/scanprofiles/{profileid} response codes

Table 1078: 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. The request takes one parameter - scanProfileId, and one optional parameter - ips. To get a list of scanProfileIds, simply 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.

POST /scanner/scanprofiles/{profileid}/start resource details

Table 1079: POST /scanner/scanprofiles/{profileid}/start resource details

MIME Type
text/plain

POST /scanner/scanprofiles/{profileid}/start request parameter details

Table 1080: 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

POST /scanner/scanprofiles/{profileid}/start request body details

Table 1081: POST /scanner/scanprofiles/{profileid}/start request body details

Parameter	Data Type	MIME Type	Description	Sample
ips	ScanRequest	application/json	null	null

POST /scanner/scanprofiles/{profileid}/start response codes

Table 1082: POST /scanner/scanprofiles/{profileid}/start response codes

HTTP Response Code	Unique Code	Description
202		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

Offense endpoints

Use the references for REST API V2 Offense endpoints.

GET /siem/offenses

Retrieve a list of offenses currently in the system.

Retrieve a list of offenses currently in the system.

GET /siem/offenses resource details

Table 1083: GET /siem/offenses resource details

MIME Type
application/json

GET /siem/offenses request parameter details

Table 1084: GET /siem/offenses request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
limit	query	Optional	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /siem/offenses response codes

Table 1085: 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:

- *id* - Number - The ID of the offense. *description* - String - The description 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.
- *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. See the Offense Type Codes table for the code to offense type mapping
- *protected* - Boolean - True if the offense is protected.
- *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* - The number of usernames that are associated with the offense.

Offense Type Codes:

Code	Offense Type
0	Source IP
1	Destination IP
2	Event Name
3	Username
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

Code	Offense Type
15	App Id
18	Scheduled Search

Response Sample

```
{
  "credibility": 42,
  "close_user": "String",
  "remote_destination_count": 42,
  "assigned_to": "String",
  "local_destination_count": 42,
  "source_count": 42,
  "closing_reason": "String",
  "start_time": 42,
  "id": 42,
  "destination_networks": ["String"],
  "inactive": true,
  "protected": true,
  "policy_category_count": 42,
  "description": "String",
  "category_count": 42,
  "relevance": 42,
  "device_count": 42,
  "security_category_count": 42,
  "flow_count": 42,
  "event_count": 42,
  "offense_source": "String",
  "status": "String",
  "magnitude": 42,
  "severity": 42,
  "username_count": 42,
  "close_time": 42,
  "source_network": "String",
  "last_updated_time": 42,
  "categories": ["String"],
  "offense_type": 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 DEPRECATED

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

POST /auth/logout resource details

Table 1086: POST /auth/logout resource details

MIME Type
text/plain

There are no parameters for this endpoint.

POST /auth/logout response codes

Table 1087: POST /auth/logout response codes

HTTP Response Code	Unique Code	Description
200		The session was invalidated.

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 DEPRECATED

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

GET /help/capabilities resource details

Table 1088: GET /help/capabilities resource details

MIME Type
application/json

GET /help/capabilities request parameter details

Table 1089: GET /help/capabilities request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
categories	query	Optional	String[]	application/json	Restrict your search to this list of capabilities
paths	query	Optional	String[]	application/json	Restrict your search to these paths only
httpMethods	query	Optional	String[]	application/json	Restrict your search to these HTTP methods
version	query	Optional	String	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)
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /help/capabilities response codes

Table 1090: GET /help/capabilities response codes

HTTP Response Code	Unique Code	Description
200		The API capabilities list was retrieved.
422	1001	Invalid input

Table 1090: GET /help/capabilities response codes (continued)

HTTP Response Code	Unique Code	Description
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 Description

Endpoints you are able to access, mapped against versions they belong to. If full content is not requested, values will be null.

Response Sample

```
{
  "categories": [
    {
      "apis": [
        {
          "httpMethod": "String <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": "String",
              "parameters": [
                {
                  "allowMultiple": true,
                  "defaultValue": "String",
                  "description": "String",
                  "name": "String",
                  "pathIndex": 42,
                  "required": true,
                  "source": "String",
                  "supportedContentTypes": [
                    {
                      "dataType": "String",
                      "mimeType": "String",
                      "sample": "String"
                    }
                  ]
                }
              ]
            }
          ]
        }
      ]
    }
  ]
}
```

```

    }
  ]
},
"removalTarget": "String",
"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": "String",
"visibility": "String"
}
],
"path": "String"
}
],
"path": "String"
}
],
"path": "String"
}
}

```

GET /qvm/assets DEPRECATED

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

GET /qvm/assets resource details

Table 1091: GET /qvm/assets resource details

MIME Type
application/json

GET /qvm/assets request parameter details

Table 1092: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter": "value", "operator": "value", "value": "value"}] e.g. [{"parameter": "IPv4 Address", "operator": "Equals", "value": "10.100.85.111"}]

GET /qvm/assets response codes

Table 1093: 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 DEPRECATED

Get a list of the allowable filters that can be used or applied against the /qvm/assets, /qvm/vulns /qvm/vulninstances, /qvm/openservices, and /qvm/networks queries

GET /qvm/filters resource details

Table 1094: GET /qvm/filters resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /qvm/filters response codes

Table 1095: 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 DEPRECATED**

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

GET /qvm/network resource details

Table 1096: GET /qvm/network resource details

MIME Type
application/json

GET /qvm/network request parameter details

Table 1097: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/network response codes

Table 1098: 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 DEPRECATED**

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

GET /qvm/openservices resource details

Table 1099: GET /qvm/openservices resource details

MIME Type
application/json

GET /qvm/openservices request parameter details

Table 1100: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/openservices response codes

Table 1101: 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 DEPRECATED**

Get a list of saved searches that can be used or applied against the /qvm/assets, /qvm/vuln, /qvm/vulninstances, /qvm/openservices, and /qvm/networks queries

GET /qvm/savedsearches resource details

Table 1102: GET /qvm/savedsearches resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /qvm/savedsearches response codes

Table 1103: 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. Per saved search: id, name and list fo filters that make up this saved search

Response Sample

POST /qvm/tickets/assign DEPRECATED

Update the remediation ticket for the assigned vulnerability.

POST /qvm/tickets/assign resource details

Table 1104: POST /qvm/tickets/assign resource details

MIME Type
application/json

POST /qvm/tickets/assign request body details

Table 1105: POST /qvm/tickets/assign request body details

Parameter	Data Type	MIME Type	Description	Sample
ticket	TicketUpdate	application/json	<p>The following paramters are required</p> <p>ticketId</p> <p>priority: Specify one of the following values : Critical, Major, Minor, Warning, Informational</p> <p>status: Specify one of the following values: Opened, Fixed, Re-Opened, Closed</p> <p>assignedUser: Valid Qradar user account name or a valid email</p> <p>The following parameters are optional:</p> <p>dueDate: Format is yyyy-MM-dd HH:mm:ss</p> <p>comment: Format is text.</p> <p>commentUser: Valid user account name, if not included, the default current API user is used.</p>	<pre>[{ "ticketId": "1000", "status": "Opened", "priority": "Critical", "dueDate": "2015-01-04 12:00:00", "assignedUser": "admin", "comment": "testComment", "commentUser": "admin" }]</pre>

POST /qvm/tickets/assign response codes

Table 1106: 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 the update succeeded.

Response Sample

GET /qvm/vulninstances DEPRECATED

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

GET /qvm/vulninstances resource details

Table 1107: GET /qvm/vulninstances resource details

MIME Type
application/json

GET /qvm/vulninstances request parameter details

Table 1108: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/vulninstances response codes

Table 1109: 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 DEPRECATED

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

GET /qvm/vulns resource details

Table 1110: GET /qvm/vulns resource details

MIME Type
application/json

GET /qvm/vulns request parameter details

Table 1111: 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	FilterDTO[]	application/json	List of JSON objects for application of bespoke query search dataset filter. Format [{"parameter":"value", "operator":"value", "value":"value"}] e.g. [{"parameter":"IPv4 Address", "operator":"Equals", "value":"10.100.85.111"}]

GET /qvm/vulns response codes

Table 1112: 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 V4 reference data endpoints.

GET /referencedata/mapOfSets DEPRECATED

Retrieve a list of all reference map of sets

GET /referencedata/mapOfSets resource details

Table 1113: GET /referencedata/mapOfSets resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/mapOfSets response codes

Table 1114: GET /referencedata/mapOfSets 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

```
[
  {
    "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
  }
]
```

DELETE /referencedata/mapOfSets/{name} DEPRECATED

Remove a map of sets or purge its contents

DELETE /referencedata/mapOfSets/{name} resource details

Table 1115: DELETE /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

DELETE /referencedata/mapOfSets/{name} request parameter details

Table 1116: 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.

DELETE /referencedata/mapOfSets/{name} response codes

Table 1117: 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
404	1002	The reference map of sets does not exist
409	1004	The reference map of sets could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
  }

```

GET /referencedata/mapOfSets/{name} DEPRECATED

Return the reference map of sets identified by **name**. If provided, **limit** specifies the number of records to return starting at record specified by **offset**. If not specified, then the first 20 records will be returned.

GET /referencedata/mapOfSets/{name} resource details

Table 1118: GET /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

GET /referencedata/mapOfSets/{name} request parameter details

Table 1119: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/mapOfSets/{name} response codes

Table 1120: 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
    }
  ]
}
}

```

DELETE /referencedata/mapOfSets/{name}/{key} DEPRECATED

Remove a value from a reference map of sets

DELETE /referencedata/mapOfSets/{name}/{key} resource details

Table 1121: DELETE /referencedata/mapOfSets/{name}/{key} resource details

MIME Type
application/json

DELETE /referencedata/mapOfSets/{name}/{key} request parameter details

Table 1122: 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.

DELETE /referencedata/mapOfSets/{name}/{key} response codes

Table 1123: DELETE /referencedata/mapOfSets/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map of sets has had a value removed
404	1002	The reference map of sets does not exist
404	1003	The record does not exist in the reference map of sets
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/mapOfSets/{name} DEPRECATED

Add or update an element in a reference map of sets

POST /referencedata/mapOfSets/{name} resource details

Table 1124: POST /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

POST /referencedata/mapOfSets/{name} request parameter details

Table 1125: 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

Table 1125: POST /referencedata/mapOfSets/{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 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'

POST /referencedata/mapOfSets/{name} response codes

Table 1126: POST /referencedata/mapOfSets/{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

```
{
  "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
}
```

POST /referencedata/mapOfSets *DEPRECATED*

Create a new reference map of sets

POST /referencedata/mapOfSets resource details

Table 1127: POST /referencedata/mapOfSets resource details

MIME Type
application/json

POST /referencedata/mapOfSets request parameter details

Table 1128: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/mapOfSets response codes

Table 1129: POST /referencedata/mapOfSets response codes

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created
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.
422	1005	A request parameter is not valid
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": 139837702319,
```

```

"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 DEPRECATED

Retrieve a list of all reference maps

GET /referencedata/maps resource details

Table 1130: GET /referencedata/maps resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/maps response codes

Table 1131: 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
    }
  ]

```

DELETE /referencedata/maps/{name} DEPRECATED

Remove a reference map or purge its contents

DELETE /referencedata/maps/{name} resource details

Table 1132: DELETE /referencedata/maps/{name} resource details

MIME Type
application/json

DELETE /referencedata/maps/{name} request parameter details

Table 1133: 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.

DELETE /referencedata/maps/{name} response codes

Table 1134: 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
404	1002	The reference map does not exist

Table 1134: DELETE /referencedata/maps/{name} response codes (continued)

HTTP Response Code	Unique Code	Description
409	1004	The reference map could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/maps/{name} DEPRECATED

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

GET /referencedata/maps/{name} resource details

Table 1135: GET /referencedata/maps/{name} resource details

MIME Type
application/json

GET /referencedata/maps/{name} request parameter details

Table 1136: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/maps/{name} response codes

Table 1137: 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
    }
  }
}

```

DELETE /referencedata/maps/{name}/{key} DEPRECATED

Remove a value from a reference map

DELETE /referencedata/maps/{name}/{key} resource details

Table 1138: DELETE /referencedata/maps/{name}/{key} resource details

MIME Type
application/json

DELETE /referencedata/maps/{name}/{key} request parameter details

Table 1139: 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.

DELETE /referencedata/maps/{name}/{key} response codes

Table 1140: DELETE /referencedata/maps/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed
404	1002	The reference map does not exist
404	1003	The record does not exist in the reference map
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/maps/{name} DEPRECATED

Add or update an element in a reference map

POST /referencedata/maps/{name} resource details

Table 1141: POST /referencedata/maps/{name} resource details

MIME Type
application/json

POST /referencedata/maps/{name} request parameter details

Table 1142: 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'

POST /referencedata/maps/{name} response codes

Table 1143: 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
}
```

POST /referencedata/maps DEPRECATED

Create a new reference map

POST /referencedata/maps resource details

Table 1144: POST /referencedata/maps resource details

MIME Type
application/json

POST /referencedata/maps request parameter details

Table 1145: 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

Table 1145: POST /referencedata/maps request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
elementType	query	Required	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/maps response codes

Table 1146: POST /referencedata/maps response codes

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.
422	1005	parameters were invalid
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
}
```

POST /referencedata/sets/bulkLoad/{name} DEPRECATED

Add or update data in a reference set

POST /referencedata/sets/bulkLoad/{name} resource details

Table 1147: POST /referencedata/sets/bulkLoad/{name} resource details

MIME Type
application/json

POST /referencedata/sets/bulkLoad/{name} request parameter details

Table 1148: 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

POST /referencedata/sets/bulkLoad/{name} request body details

Table 1149: POST /referencedata/sets/bulkLoad/{name} request body details

Parameter	Data Type	MIME Type	Description	Sample
data	InputStream	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"]

POST /referencedata/sets/bulkLoad/{name} response codes

Table 1150: POST /referencedata/sets/bulkLoad/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference set has had data added or updated
400	1001	An error occurred parsing the JSON formatted message body
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

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": 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
}
```

GET /referencedata/sets DEPRECATED

Retrieve a list of all reference sets.

GET /referencedata/sets resource details

Table 1151: GET /referencedata/sets resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/sets response codes

Table 1152: 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>"
  }
]
```

DELETE /referencedata/sets/{name} DEPRECATED

Remove a reference set or purge its contents

DELETE /referencedata/sets/{name} resource details

Table 1153: DELETE /referencedata/sets/{name} resource details

MIME Type
application/json

DELETE /referencedata/sets/{name} request parameter details

Table 1154: 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.

DELETE /referencedata/sets/{name} response codes

Table 1155: 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
404	1002	The reference set does not exist
409	1004	The reference set could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/sets/{name} DEPRECATED

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

GET /referencedata/sets/{name} resource details

Table 1156: GET /referencedata/sets/{name} resource details

MIME Type
application/json

GET /referencedata/sets/{name} request parameter details

Table 1157: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/sets/{name} response codes

Table 1158: 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} DEPRECATED

Add or update an element in a reference set

POST /referencedata/sets/{name} resource details

Table 1159: POST /referencedata/sets/{name} resource details

MIME Type
application/json

POST /referencedata/sets/{name} request parameter details

Table 1160: 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'

POST /referencedata/sets/{name} response codes

Table 1161: 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}/{value} DEPRECATED

Remove a value from a reference set

DELETE /referencedata/sets/{name}/{value} resource details

Table 1162: DELETE /referencedata/sets/{name}/{value} resource details

MIME Type
application/json

DELETE /referencedata/sets/{name}/{value} request parameter details

Table 1163: 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.

DELETE /referencedata/sets/{name}/{value} response codes

Table 1164: DELETE /referencedata/sets/{name}/{value} response codes

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed
404	1002	The reference set does not exist
404	1003	The record does not exist in the reference set
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/sets *DEPRECATED*

Create a new reference set

POST /referencedata/sets resource details

Table 1165: POST /referencedata/sets resource details

MIME Type
application/json

POST /referencedata/sets request parameter details

Table 1166: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/sets response codes

Table 1167: POST /referencedata/sets response codes

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/tables DEPRECATED

Retrieve a list of all reference tables

GET /referencedata/tables resource details

Table 1168: GET /referencedata/tables resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/tables response codes

Table 1169: 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>"
    }
  }
}
]

```

DELETE /referencedata/tables/{name} DEPRECATED

Remove a reference table or purge its contents

DELETE /referencedata/tables/{name} resource details

Table 1170: DELETE /referencedata/tables/{name} resource details

MIME Type
application/json

DELETE /referencedata/tables/{name} request parameter details

Table 1171: 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.

DELETE /referencedata/tables/{name} response codes

Table 1172: 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
404	1002	The reference table does not exist
409	1004	The reference table could not be deleted, it is being used by other objects.

Table 1172: DELETE /referencedata/tables/{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 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>"
  }
}
```

GET /referencedata/tables/{name} DEPRECATED

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

GET /referencedata/tables/{name} resource details

Table 1173: GET /referencedata/tables/{name} resource details

MIME Type
application/json

GET /referencedata/tables/{name} request parameter details

Table 1174: 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	Long	text/plain	Optional - The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/tables/{name} response codes

Table 1175: 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": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String2": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      }
    },
    "String1": {
      "String1": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String2": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String3": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      }
    }
  }
}

```

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} DEPRECATED

Remove a value from a reference table

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details

Table 1176: DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details

MIME Type
application/json

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} request parameter details

Table 1177: 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.

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes

Table 1178: DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes

HTTP Response Code	Unique Code	Description
200		The reference table had had a value removed
404	1002	The reference table does not exist
404	1003	The record does not exist in the reference table
422	1005	A request parameter is not valid
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>"
  }
}
```

```

    }
  }
}

```

POST /referencedata/tables/{name} DEPRECATED

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

POST /referencedata/tables/{name} resource details

Table 1179: POST /referencedata/tables/{name} resource details

MIME Type
application/json

POST /referencedata/tables/{name} request parameter details

Table 1180: 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'

POST /referencedata/tables/{name} response codes

Table 1181: 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>"
  }
}
```

POST /referencedata/tables DEPRECATED

Create a new reference table

POST /referencedata/tables resource details

Table 1182: POST /referencedata/tables resource details

MIME Type
application/json

POST /referencedata/tables request parameter details

Table 1183: 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	ReferenceDataType	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 keyNameTypes 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

Table 1183: POST /referencedata/tables request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
timeoutType	query	Optional	ReferenceDataTimeoutType	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	KeyNameType[]	application/json	Optional - A JSON formatted string. This array creates the inner key names and corresponding value types for the table

POST /referencedata/tables response codes

Table 1184: POST /referencedata/tables response codes

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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>"
  }
}
```

Scanner endpoints

Use the references for REST API V1 scanner endpoints.

POST /scanner/profiles/create DEPRECATED

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 e.g. {'name':'New Scan Profile', 'ips':['10.100.85.135']}

POST /scanner/profiles/create resource details

Table 1185: POST /scanner/profiles/create resource details

MIME Type
text/plain

POST /scanner/profiles/create request body details

Table 1186: POST /scanner/profiles/create request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	null

POST /scanner/profiles/create response codes

Table 1187: 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

GET /scanner/profiles DEPRECATED

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

GET /scanner/profiles resource details

Table 1188: GET /scanner/profiles resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /scanner/profiles response codes

Table 1189: 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 QVM

Response Sample

POST /scanner/profiles/start DEPRECATED

Initiates a request to start an already created scanProfile. The request takes one parameter - scanProfileId. To get a list of scanProfileIds, simply 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.

POST /scanner/profiles/start resource details

Table 1190: POST /scanner/profiles/start resource details

MIME Type
text/plain

POST /scanner/profiles/start request parameter details

Table 1191: 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

POST /scanner/profiles/start response codes

Table 1192: 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 DEPRECATED

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

GET /scanner/scanprofiles resource details

Table 1193: GET /scanner/scanprofiles resource details

MIME Type
application/json

GET /scanner/scanprofiles request parameter details

Table 1194: GET /scanner/scanprofiles request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /scanner/scanprofiles response codes

Table 1195: 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 QVM

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 DEPRECATED

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 e.g. `{'name':'New Scan Profile', 'ips':['10.100.85.135']}`

POST /scanner/scanprofiles resource details

Table 1196: POST /scanner/scanprofiles resource details

MIME Type
text/plain

POST /scanner/scanprofiles request body details

Table 1197: POST /scanner/scanprofiles request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	<code>{ "description": "String", "hosts": ["String"], "name": "String" }</code>

POST /scanner/scanprofiles response codes

Table 1198: 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} DEPRECATED

Initiates a request to delete a scanProfile. The request takes one parameter - the Scan Profile ID.

DELETE /scanner/scanprofiles/{profileid} resource details

Table 1199: DELETE /scanner/scanprofiles/{profileid} resource details

MIME Type
text/plain

DELETE /scanner/scanprofiles/{profileid} request parameter details

Table 1200: DELETE /scanner/scanprofiles/{profileid} request parameter details

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

DELETE /scanner/scanprofiles/{profileid} response codes

Table 1201: 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} DEPRECATED

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 - schedule - status - progress - lastRunTime - duration

GET /scanner/scanprofiles/{profileid} resource details

Table 1202: GET /scanner/scanprofiles/{profileid} resource details

MIME Type
application/json

GET /scanner/scanprofiles/{profileid} request parameter details

Table 1203: 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
filter	query	Optional	String	text/plain	Optional - This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional - Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional - Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /scanner/scanprofiles/{profileid} response codes

Table 1204: 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 QVM

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} DEPRECATED

Update a scan profile. One parameter is required, the Scan Profile ID. The following information on a scan profile can be updated - scanProfileName - description - ips

POST /scanner/scanprofiles/{profileid} resource details

Table 1205: POST /scanner/scanprofiles/{profileid} resource details

MIME Type
application/json

POST /scanner/scanprofiles/{profileid} request parameter details

Table 1206: 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

POST /scanner/scanprofiles/{profileid} request body details

Table 1207: POST /scanner/scanprofiles/{profileid} request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	null

POST /scanner/scanprofiles/{profileid} response codes

Table 1208: 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 DEPRECATED

Initiates a request to start an already created scanProfile. The request takes one parameter - scanProfileId, and one optional parameter - ips. To get a list of scanProfileIds, simply 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.

POST /scanner/scanprofiles/{profileid}/start resource details

Table 1209: POST /scanner/scanprofiles/{profileid}/start resource details

MIME Type
text/plain

POST /scanner/scanprofiles/{profileid}/start request parameter details

Table 1210: 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

POST /scanner/scanprofiles/{profileid}/start request body details

Table 1211: POST /scanner/scanprofiles/{profileid}/start request body details

Parameter	Data Type	MIME Type	Description	Sample
ips	ScanRequest	application/json	null	null

POST /scanner/scanprofiles/{profileid}/start response codes

Table 1212: POST /scanner/scanprofiles/{profileid}/start response codes

HTTP Response Code	Unique Code	Description
202		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

REST API V0.2 References

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

Scanner endpoints

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

POST /scanner/profiles/create *DEPRECATED*

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']}`

POST /scanner/profiles/create resource details

Table 1213: POST /scanner/profiles/create resource details

MIME Type
text/plain

POST /scanner/profiles/create request body details

Table 1214: POST /scanner/profiles/create request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	null

POST /scanner/profiles/create response codes

Table 1215: 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

GET /scanner/profiles DEPRECATED

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

GET /scanner/profiles resource details

Table 1216: GET /scanner/profiles resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /scanner/profiles response codes

Table 1217: 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 QVM

Response Sample*POST /scanner/profiles/start DEPRECATED*

Initiates a request to start an already created scanProfile.

The request takes one parameter: `scanProfileId`. 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.

POST /scanner/profiles/start resource details

Table 1218: POST /scanner/profiles/start resource details

MIME Type
text/plain

POST /scanner/profiles/start request parameter details

Table 1219: 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

POST /scanner/profiles/start response codes

Table 1220: 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 DEPRECATED

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

GET /scanner/scanprofiles resource details

Table 1221: GET /scanner/scanprofiles resource details

MIME Type
application/json

GET /scanner/scanprofiles request parameter details

Table 1222: GET /scanner/scanprofiles request parameter details

Parameter	Type	Optionality	Data Type	MIME Type	Description
filter	query	Optional	String	text/plain	Optional. This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional. Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional. Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /scanner/scanprofiles response codes

Table 1223: 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 QVM

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 DEPRECATED

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']}`

POST /scanner/scanprofiles resource details

Table 1224: POST /scanner/scanprofiles resource details

MIME Type
text/plain

POST /scanner/scanprofiles request body details

Table 1225: POST /scanner/scanprofiles request body details

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

POST /scanner/scanprofiles response codes

Table 1226: 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} DEPRECATED

Initiates a request to delete a scanProfile.

The request takes one parameter: Scan Profile ID.

DELETE /scanner/scanprofiles/{profileid} resource details

Table 1227: DELETE /scanner/scanprofiles/{profileid} resource details

MIME Type
text/plain

DELETE /scanner/scanprofiles/{profileid} request parameter details

Table 1228: DELETE /scanner/scanprofiles/{profileid} request parameter details

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

DELETE /scanner/scanprofiles/{profileid} response codes

Table 1229: 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} DEPRECATED

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
- schedule
- status
- progress
- lastRunTime
- duration

GET /scanner/scanprofiles/{profileid} resource details

Table 1230: GET /scanner/scanprofiles/{profileid} resource details

MIME Type
application/json

GET /scanner/scanprofiles/{profileid} request parameter details

Table 1231: 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
filter	query	Optional	String	text/plain	Optional. This parameter is used to restrict the elements in a list base on the contents of various fields.
Range	header	Optional	String	text/plain	Optional. Use this parameter to restrict the number of elements that are returned in the list to a specified range. The list is indexed starting at zero.
fields	query	Optional	String	text/plain	Optional. Use this parameter to specify which fields you would like to get back in the response. Fields that are not named are excluded. Specify subfields in brackets and multiple fields in the same object are separated by commas.

GET /scanner/scanprofiles/{profileid} response codes

Table 1232: 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 QVM

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} DEPRECATED

Update a scan profile.

One parameter is required: Scan Profile ID. The following information on a scan profile can be updated:

- scanProfileName
- description

- ips

POST /scanner/scanprofiles/{profileid} resource details

Table 1233: POST /scanner/scanprofiles/{profileid} resource details

MIME Type
application/json

POST /scanner/scanprofiles/{profileid} request parameter details

Table 1234: 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

POST /scanner/scanprofiles/{profileid} request body details

Table 1235: POST /scanner/scanprofiles/{profileid} request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	null

POST /scanner/scanprofiles/{profileid} response codes

Table 1236: 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 DEPRECATED

Initiates a request to start an already created scanProfile.

The request takes one parameter, scanProfileId, and one optional parameter: ips. To get a list of scanProfileIds, simply 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.

POST /scanner/scanprofiles/{profileid}/start resource details

Table 1237: POST /scanner/scanprofiles/{profileid}/start resource details

MIME Type
text/plain

POST /scanner/scanprofiles/{profileid}/start request parameter details

Table 1238: 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

POST /scanner/scanprofiles/{profileid}/start request body details

Table 1239: POST /scanner/scanprofiles/{profileid}/start request body details

Parameter	Data Type	MIME Type	Description	Sample
ips	ScanRequest	application/json	null	null

POST /scanner/scanprofiles/{profileid}/start response codes

Table 1240: POST /scanner/scanprofiles/{profileid}/start response codes

HTTP Response Code	Unique Code	Description
202		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

Reference data endpoints

Use the references for REST API V0.1 reference data endpoints.

GET /referencedata/mapOfSets DEPRECATED

Retrieve a list of all reference map of sets.

GET /referencedata/mapOfSets resource details

Table 1241: GET /referencedata/mapOfSets resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/mapOfSets response codes

Table 1242: GET /referencedata/mapOfSets 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

```
[
  {
    "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
  }
]
```

DELETE /referencedata/mapOfSets/{name} DEPRECATED

Remove a map of sets or purge its contents.

DELETE /referencedata/mapOfSets/{name} resource details

Table 1243: DELETE /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

DELETE /referencedata/mapOfSets/{name} request parameter details

Table 1244: 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.

DELETE /referencedata/mapOfSets/{name} response codes

Table 1245: 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
404	1002	The reference map of sets does not exist
409	1004	The reference map of sets could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/mapOfSets/{name} DEPRECATED

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

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

GET /referencedata/mapOfSets/{name} resource details

Table 1246: GET /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

GET /referencedata/mapOfSets/{name} request parameter details

Table 1247: 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	Long	text/plain	Optional. The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/mapOfSets/{name} response codes

Table 1248: 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 1248: 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
    }
  ],
  "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
    }
  ]
}

```

DELETE /referencedata/mapOfSets/{name}/{key} DEPRECATED

Remove a value from a reference map of sets.

DELETE /referencedata/mapOfSets/{name}/{key} resource details

Table 1249: DELETE /referencedata/mapOfSets/{name}/{key} resource details

MIME Type
application/json

DELETE /referencedata/mapOfSets/{name}/{key} request parameter details

Table 1250: 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.

DELETE /referencedata/mapOfSets/{name}/{key} response codes

Table 1251: DELETE /referencedata/mapOfSets/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map of sets has had a value removed
404	1002	The reference map of sets does not exist
404	1003	The record does not exist in the reference map of sets
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/mapOfSets/{name} DEPRECATED

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

POST /referencedata/mapOfSets/{name} resource details

Table 1252: POST /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

POST /referencedata/mapOfSets/{name} request parameter details

Table 1253: 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. 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'

POST /referencedata/mapOfSets/{name} response codes

Table 1254: POST /referencedata/mapOfSets/{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

```
{
  "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
  }

```

POST /referencedata/mapOfSets DEPRECATED

Create a new reference map of sets.

POST /referencedata/mapOfSets resource details

Table 1255: POST /referencedata/mapOfSets resource details

MIME Type
application/json

POST /referencedata/mapOfSets request parameter details

Table 1256: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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"

POST /referencedata/mapOfSets response codes

Table 1257: POST /referencedata/mapOfSets response codes

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created
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.
422	1005	A request parameter is not valid
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/maps DEPRECATED

Retrieve a list of all reference maps.

GET /referencedata/maps resource details

Table 1258: GET /referencedata/maps resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/maps response codes

Table 1259: 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
}
]

```

DELETE /referencedata/maps/{name} DEPRECATED

Remove a reference map or purge its contents.

DELETE /referencedata/maps/{name} resource details

Table 1260: DELETE /referencedata/maps/{name} resource details

MIME Type
application/json

DELETE /referencedata/maps/{name} request parameter details

Table 1261: 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.

DELETE /referencedata/maps/{name} response codes

Table 1262: 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
404	1002	The reference map does not exist
409	1004	The reference map could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/maps/{name} DEPRECATED

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

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

GET /referencedata/maps/{name} resource details

Table 1263: GET /referencedata/maps/{name} resource details

MIME Type
application/json

GET /referencedata/maps/{name} request parameter details

Table 1264: 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	Long	text/plain	Optional. The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/maps/{name} response codes

Table 1265: 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
    }
  }
}

```

DELETE /referencedata/maps/{name}/{key} DEPRECATED

Remove a value from a reference map.

DELETE /referencedata/maps/{name}/{key} resource details

Table 1266: DELETE /referencedata/maps/{name}/{key} resource details

MIME Type
application/json

DELETE /referencedata/maps/{name}/{key} request parameter details

Table 1267: 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.

DELETE /referencedata/maps/{name}/{key} response codes

Table 1268: DELETE /referencedata/maps/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map has had a value removed
404	1002	The reference map does not exist
404	1003	The record does not exist in the reference map
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/maps/{name} DEPRECATED

Add or update an element in a reference map.

POST /referencedata/maps/{name} resource details

Table 1269: POST /referencedata/maps/{name} resource details

MIME Type
application/json

POST /referencedata/maps/{name} request parameter details

Table 1270: 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

POST /referencedata/maps/{name} response codes

Table 1271: 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
}
```

POST /referencedata/maps DEPRECATED

Create a new reference map.

POST /referencedata/maps resource details

Table 1272: POST /referencedata/maps resource details

MIME Type
application/json

POST /referencedata/maps request parameter details

Table 1273: 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

Table 1273: POST /referencedata/maps request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
elementType	query	Required	ReferenceDataType	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	ReferenceDataTimeoutType	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.

POST /referencedata/maps response codes

Table 1274: POST /referencedata/maps response codes

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created
409	1004	The reference map could not be created, the name provided is already in use. Please change the name and try again.
422	1005	parameters were invalid
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
}
```

POST /referencedata/sets/bulkLoad/{name} DEPRECATED

Add or update data in a reference set.

POST /referencedata/sets/bulkLoad/{name} resource details

Table 1275: POST /referencedata/sets/bulkLoad/{name} resource details

MIME Type
application/json

POST /referencedata/sets/bulkLoad/{name} request parameter details

Table 1276: 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

POST /referencedata/sets/bulkLoad/{name} request body details

Table 1277: POST /referencedata/sets/bulkLoad/{name} request body details

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

POST /referencedata/sets/bulkLoad/{name} response codes

Table 1278: POST /referencedata/sets/bulkLoad/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference set has had data added or updated
400	1001	An error occurred parsing the JSON formatted message body
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

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": 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
}
```

GET /referencedata/sets DEPRECATED

Retrieve a list of all reference sets.

GET /referencedata/sets resource details

Table 1279: GET /referencedata/sets resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/sets response codes

Table 1280: 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>"
  }
]
```

DELETE /referencedata/sets/{name} DEPRECATED

Remove a reference set or purge its contents.

DELETE /referencedata/sets/{name} resource details

Table 1281: DELETE /referencedata/sets/{name} resource details

MIME Type
application/json

DELETE /referencedata/sets/{name} request parameter details

Table 1282: 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.

DELETE /referencedata/sets/{name} response codes

Table 1283: 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
404	1002	The reference set does not exist
409	1004	The reference set could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/sets/{name} DEPRECATED

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

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

GET /referencedata/sets/{name} resource details

Table 1284: GET /referencedata/sets/{name} resource details

MIME Type
application/json

GET /referencedata/sets/{name} request parameter details

Table 1285: 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	Long	text/plain	Optional. The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/sets/{name} response codes

Table 1286: 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} DEPRECATED

Add or update an element in a reference set.

POST /referencedata/sets/{name} resource details

Table 1287: POST /referencedata/sets/{name} resource details

MIME Type
application/json

POST /referencedata/sets/{name} request parameter details

Table 1288: 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'

POST /referencedata/sets/{name} response codes

Table 1289: 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

Table 1289: POST /referencedata/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 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}/{value} DEPRECATED

Remove a value from a reference set.

DELETE /referencedata/sets/{name}/{value} resource details

Table 1290: DELETE /referencedata/sets/{name}/{value} resource details

MIME Type
application/json

DELETE /referencedata/sets/{name}/{value} request parameter details

Table 1291: 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.

DELETE /referencedata/sets/{name}/{value} response codes

Table 1292: DELETE /referencedata/sets/{name}/{value} response codes

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed
404	1002	The reference set does not exist
404	1003	The record does not exist in the reference set
422	1005	A request parameter is not valid
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
}
```

POST /referencedata/sets DEPRECATED

Create a new reference set.

POST /referencedata/sets resource details

Table 1293: POST /referencedata/sets resource details

MIME Type
application/json

POST /referencedata/sets request parameter details

Table 1294: 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	ReferenceDataType	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.

Table 1294: POST /referencedata/sets request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
timeoutType	query	Optional	ReferenceDataTimeoutType	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

POST /referencedata/sets response codes

Table 1295: POST /referencedata/sets response codes

HTTP Response Code	Unique Code	Description
201		A new reference set was successfully created
409	1004	The reference set could not be created, the name provided is already in use. Please change the name and try again.
422	1005	A request parameter is not valid
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
}
```

GET /referencedata/tables *DEPRECATED*

Retrieve a list of all reference tables.

GET /referencedata/tables resource details

Table 1296: GET /referencedata/tables resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/tables response codes

Table 1297: 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",
    "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>"
    }
  },
  {
    "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>"
    }
  },
  {
    "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>"
    }
  }
]
```

```

    }
  ]

```

DELETE /referencedata/tables/{name} DEPRECATED

Remove a reference table or purge its contents.

DELETE /referencedata/tables/{name} resource details

Table 1298: DELETE /referencedata/tables/{name} resource details

MIME Type
application/json

DELETE /referencedata/tables/{name} request parameter details

Table 1299: 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.

DELETE /referencedata/tables/{name} response codes

Table 1300: 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
404	1002	The reference table does not exist
409	1004	The reference table could not be deleted, it is being used by other objects.
422	1005	A request parameter is not valid
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>"
  }
}
```

GET /referencedata/tables/{name} DEPRECATED

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

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

GET /referencedata/tables/{name} resource details

Table 1301: GET /referencedata/tables/{name} resource details

MIME Type
application/json

GET /referencedata/tables/{name} request parameter details

Table 1302: 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	Long	text/plain	Optional. The number of records to return. The default value is 20.
offset	query	Optional	Long	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.

GET /referencedata/tables/{name} response codes

Table 1303: 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": 13988888888888,
  "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": 13988888888888,
        "lastSeen": 13988888888888
      }
    },
    "String3": {
      "String1": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String2": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      }
    },
    "String1": {
      "String1": {
        "value": "String",
        "source": "String",

```

```

    "firstSeen": 13988888888888,
    "lastSeen": 13988888888888
  },
  "String2": {
    "value": "String",
    "source": "String",
    "firstSeen": 13988888888888,
    "lastSeen": 13988888888888
  },
  "String3": {
    "value": "String",
    "source": "String",
    "firstSeen": 13988888888888,
    "lastSeen": 13988888888888
  }
}
}
}
}
}

```

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} DEPRECATED

Remove a value from a reference table.

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details

Table 1304: DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} resource details

MIME Type
application/json

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} request parameter details

Table 1305: 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.

DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes

Table 1306: DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes

HTTP Response Code	Unique Code	Description
200		The reference table had had a value removed
404	1002	The reference table does not exist
404	1003	The record does not exist in the reference table
422	1005	A request parameter is not valid
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>"
  }
}
```

POST /referencedata/tables/{name} DEPRECATED

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

POST /referencedata/tables/{name} resource details

Table 1307: POST /referencedata/tables/{name} resource details

MIME Type
application/json

POST /referencedata/tables/{name} request parameter details

Table 1308: 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'

POST /referencedata/tables/{name} response codes

Table 1309: 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>"
  }
}
```

```
}
}
```

POST /referencedata/tables DEPRECATED

Create a new reference table.

POST /referencedata/tables resource details

Table 1310: POST /referencedata/tables resource details

MIME Type
application/json

POST /referencedata/tables request parameter details

Table 1311: 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	ReferenceDataType	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 <code>keyNameTypes</code> 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	ReferenceDataTimeoutType	text/plain	Optional. The allowed values are FIRST_SEEN, LAST_SEEN, and UNKNOWN. The default value is UNKNOWN. This indicates if the <code>timeToLive</code> 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	KeyNameType[]	application/json	Optional. A JSON formatted string. This array creates the inner key names and corresponding value types for the table

POST /referencedata/tables response codes

Table 1312: POST /referencedata/tables response codes

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created
409	1004	The reference table could not be created, the name provided is already in use. Please change the name and try again.

Table 1312: POST /referencedata/tables 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 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>"
  }
}
```

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 DEPRECATED

Retrieve a list of all reference map of sets.

GET /referencedata/mapOfSets resource details

Table 1313: GET /referencedata/mapOfSets resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/mapOfSets response codes

Table 1314: GET /referencedata/mapOfSets 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

```
[
  {
    "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
  }
]
```

DELETE /referencedata/mapOfSets/{name} DEPRECATED

Remove a map of sets or purge its contents.

DELETE /referencedata/mapOfSets/{name} resource details

Table 1315: DELETE /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

DELETE /referencedata/mapOfSets/{name} request parameter details

Table 1316: 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 . A value of true indicates that you should purge the reference map of sets contents and keep the reference map of sets structure. If the value is false or not specified the reference map of sets is removed completely.

DELETE /referencedata/mapOfSets/{name} response codes

Table 1317: DELETE /referencedata/mapOfSets/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference map contents are purged.
204		The reference map is removed.
404	1002	The reference map of sets does not exist.
409	1004	The reference map of sets did not delete because it is being used by other objects.
422	1005	A request parameter is not valid.
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 with purged contents 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
  }

```

GET /referencedata/mapOfSets/{name} DEPRECATED

Return the reference map of sets that are identified by **name**. If provided, **limit** specifies the number of records to return starting at record that is specified by **offset**. If not specified, then the first 20 records are returned.

GET /referencedata/mapOfSets/{name} resource details

Table 1318: GET /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

GET /referencedata/mapOfSets/{name} request parameter details

Table 1319: 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	Long	text/plain	Optional. The number of records to return. The default value is 20.
offset	query	Optional	Long	text/plain	Optional. The offset value. This indicates to retrieve values that start from the offset value rather than from the beginning of the reference map of sets. The default value is 0.

GET /referencedata/mapOfSets/{name} response codes

Table 1320: GET /referencedata/mapOfSets/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference map of sets are 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 that are identified by the name that is specified in the request. The portion of the reference map of set data that is returned depends 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
    }
  ]
}

```

DELETE /referencedata/mapOfSets/{name}/{key} DEPRECATED

Remove a value from a reference map of sets.

DELETE /referencedata/mapOfSets/{name}/{key} resource details

Table 1321: DELETE /referencedata/mapOfSets/{name}/{key} resource details

MIME Type
application/json

DELETE /referencedata/mapOfSets/{name}/{key} request parameter details

Table 1322: 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.

DELETE /referencedata/mapOfSets/{name}/{key} response codes

Table 1323: DELETE /referencedata/mapOfSets/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map of sets has a value removed.
404	1002	The reference map of sets does not exist
404	1003	The record does not exist in the reference map of sets
422	1005	A request parameter is not valid
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 that was 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
}
```

POST /referencedata/mapOfSets/{name} DEPRECATED

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

POST /referencedata/mapOfSets/{name} resource details

Table 1324: POST /referencedata/mapOfSets/{name} resource details

MIME Type
application/json

POST /referencedata/mapOfSets/{name} request parameter details

Table 1325: 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.

Table 1325: POST /referencedata/mapOfSets/{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 of sets. 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 <code>reference data api</code> .

POST /referencedata/mapOfSets/{name} response codes

Table 1326: POST /referencedata/mapOfSets/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference map of sets has an added or updated element.
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 an added or updated element. 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
}
```

POST /referencedata/mapOfSets DEPRECATED

Create a new reference map of sets.

POST /referencedata/mapOfSets resource details

Table 1327: POST /referencedata/mapOfSets resource details

MIME Type
application/json

POST /referencedata/mapOfSets request parameter details

Table 1328: 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	ReferenceDataType	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	ReferenceDataTimeoutType	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.

POST /referencedata/mapOfSets response codes

Table 1329: POST /referencedata/mapOfSets response codes

HTTP Response Code	Unique Code	Description
201		A new reference map of sets was successfully created.
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.
422	1005	A request parameter is not valid.
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/maps DEPRECATED

Retrieve a list of all reference maps.

GET /referencedata/maps resource details

Table 1330: GET /referencedata/maps resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/maps response codes

Table 1331: GET /referencedata/maps response codes

HTTP Response Code	Unique Code	Description
200		The reference map list is 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
    }
  ]

```

DELETE /referencedata/maps/{name} DEPRECATED

Remove a reference map or purge its contents.

DELETE /referencedata/maps/{name} resource details

Table 1332: DELETE /referencedata/maps/{name} resource details

MIME Type
application/json

DELETE /referencedata/maps/{name} request parameter details

Table 1333: 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 . A value of true indicates that the reference map contents are to be purged and the reference map structure maintained. If the value is false or not specified the reference map is removed completely.

DELETE /referencedata/maps/{name} response codes

Table 1334: DELETE /referencedata/maps/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference map had its contents purged.
204		The reference map is removed.
404	1002	The reference map does not exist.
409	1004	The reference map could not be deleted, because it is being used by other objects.

Table 1334: DELETE /referencedata/maps/{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 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 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
}
```

GET /referencedata/maps/{name} DEPRECATED

Retrieve the reference map that is identified by **name**. If provided, **limit** specifies the number of records to return starting at record that is specified by **offset**. If not specified, the first 20 records are returned.

GET /referencedata/maps/{name} resource details

Table 1335: GET /referencedata/maps/{name} resource details

MIME Type
application/json

GET /referencedata/maps/{name} request parameter details

Table 1336: 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	Long	text/plain	Optional. The number of records to return. The default value is 20.
offset	query	Optional	Long	text/plain	Optional. The offset value. This indicates to retrieve values that start from the offset value rather than from the beginning of the reference map. The default value is 0.

GET /referencedata/maps/{name} response codes

Table 1337: GET /referencedata/maps/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference map is 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 that is identified by the name that is specified in the request. The portion of the reference map data that is returned depends 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
    }
  }
}
```

DELETE /referencedata/maps/{name}/{key} DEPRECATED

Remove a value from a reference map.

DELETE /referencedata/maps/{name}/{key} resource details

Table 1338: DELETE /referencedata/maps/{name}/{key} resource details

MIME Type
application/json

DELETE /referencedata/maps/{name}/{key} request parameter details

Table 1339: 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.

DELETE /referencedata/maps/{name}/{key} response codes

Table 1340: DELETE /referencedata/maps/{name}/{key} response codes

HTTP Response Code	Unique Code	Description
200		The reference map had a value removed.
404	1002	The reference map does not exist.
404	1003	The record does not exist in the reference map.
422	1005	A request parameter is not valid.
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
}
```

POST /referencedata/maps/{name} DEPRECATED

Add or update an element in a reference map.

POST /referencedata/maps/{name} resource details

Table 1341: POST /referencedata/maps/{name} resource details

MIME Type
application/json

POST /referencedata/maps/{name} request parameter details

Table 1342: 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 associated with the value you want to add or update.
value	query	Required	String	text/plain	Required. The value to add or update in the reference map. 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 <code>reference data api</code>

POST /referencedata/maps/{name} response codes

Table 1343: POST /referencedata/maps/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference map 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
}
```

POST /referencedata/maps DEPRECATED

Create a new reference map.

POST /referencedata/maps resource details

Table 1344: POST /referencedata/maps resource details

MIME Type
application/json

POST /referencedata/maps request parameter details

Table 1345: 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	ReferenceDataType	text/plain	Required. The element type for the values that are 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. Date values need to be represented in milliseconds since the UNIX Epoch January 1st 1970.
timeoutType	query	Optional	ReferenceDataTimeoutType	text/plain	Optional. The allowed values are FIRST_SEEN , LAST_SEEN , and UNKNOWN . The default value is UNKNOWN . This indicates that 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.

POST /referencedata/maps response codes

Table 1346: POST /referencedata/maps response codes

HTTP Response Code	Unique Code	Description
201		A new reference map was successfully created.
409	1004	The reference map was not created, because the name provided is already in use. Change the name and try again.
422	1005	Parameters were invalid.
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
}
```

POST /referencedata/sets/bulkLoad/{name} DEPRECATED

Add or update data in a reference set.

POST /referencedata/sets/bulkLoad/{name} resource details

Table 1347: POST /referencedata/sets/bulkLoad/{name} resource details

MIME Type
application/json

POST /referencedata/sets/bulkLoad/{name} request parameter details

Table 1348: 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.

POST /referencedata/sets/bulkLoad/{name} request body details

Table 1349: POST /referencedata/sets/bulkLoad/{name} request body details

Parameter	Data Type	MIME Type	Description	Sample
data	InputStream	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"]

POST /referencedata/sets/bulkLoad/{name} response codes

Table 1350: POST /referencedata/sets/bulkLoad/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference set had data added or updated.
400	1001	An error occurred parsing the JSON formatted message body.
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.

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": 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
}
```

GET /referencedata/sets *DEPRECATED*

Retrieve a list of all reference sets.

GET /referencedata/sets resource details

Table 1351: GET /referencedata/sets resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/sets response codes

Table 1352: GET /referencedata/sets response codes

HTTP Response Code	Unique Code	Description
200		The reference set list is 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>"
  }
]
```

DELETE /referencedata/sets/{name} DEPRECATED

Remove a reference set or purge its contents.

DELETE /referencedata/sets/{name} resource details

Table 1353: DELETE /referencedata/sets/{name} resource details

MIME Type
application/json

DELETE /referencedata/sets/{name} request parameter details

Table 1354: 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 . A value of true indicates that the reference set should have its contents purged and keep the reference set structure. If the value is false or not specified, the reference set is removed completely.

DELETE /referencedata/sets/{name} response codes

Table 1355: DELETE /referencedata/sets/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference set had its contents purged.
204		The reference set has been removed.
404	1002	The reference set does not exist.
409	1004	The reference set could not be deleted, because it is being used by other objects.
422	1005	A request parameter is not valid.
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
}
```

GET /referencedata/sets/{name} DEPRECATED

Retrieve the reference set identified by **name**. If provided, **limit** specifies the number of records to return starting at record that is specified by **offset**. If not specified, then the first 20 records are returned.

GET /referencedata/sets/{name} resource details

Table 1356: GET /referencedata/sets/{name} resource details

MIME Type
application/json

GET /referencedata/sets/{name} request parameter details

Table 1357: 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	Long	text/plain	Optional. The number of records to return. The default value is 20.
offset	query	Optional	Long	text/plain	Optional. The offset value. This indicates to retrieve values that start from the offset value rather than from the beginning of the reference set. The default value is 0.

GET /referencedata/sets/{name} response codes

Table 1358: 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 that is specified in the request. The portion of the reference set data that is returned depends 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} DEPRECATED

Add or update an element in a reference set.

POST /referencedata/sets/{name} resource details

Table 1359: POST /referencedata/sets/{name} resource details

MIME Type
application/json

POST /referencedata/sets/{name} request parameter details

Table 1360: 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. 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 <code>reference data api</code> .

POST /referencedata/sets/{name} response codes

Table 1361: POST /referencedata/sets/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference set 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}/{value} DEPRECATED

Remove a value from a reference set.

DELETE /referencedata/sets/{name}/{value} resource details

Table 1362: DELETE /referencedata/sets/{name}/{value} resource details

MIME Type
application/json

DELETE /referencedata/sets/{name}/{value} request parameter details

Table 1363: 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.

DELETE /referencedata/sets/{name}/{value} response codes

Table 1364: DELETE /referencedata/sets/{name}/{value} response codes

HTTP Response Code	Unique Code	Description
200		The reference set that had a value removed.
404	1002	The reference set does not exist.
404	1003	The record does not exist in the reference set.

Table 1364: DELETE /referencedata/sets/{name}/{value} 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 remove the value from the reference set.

Response Description

Information about the reference set that had a 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
}
```

POST /referencedata/sets DEPRECATED

Create a reference set.

POST /referencedata/sets resource details

Table 1365: POST /referencedata/sets resource details

MIME Type
application/json

POST /referencedata/sets request parameter details

Table 1366: 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	ReferenceDataType	text/plain	Required. The element type for the values that are 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 . Date values need to be represented in milliseconds since the UNIX Epoch January 1st 1970.

Table 1366: POST /referencedata/sets request parameter details (continued)

Parameter	Type	Optionality	Data Type	MIME Type	Description
timeoutType	query	Optional	ReferenceDataTimeoutType	text/plain	Optional. The allowed values are <code>FIRST_SEEN</code> , <code>LAST_SEEN</code> , and <code>UNKNOWN</code> . The default value is <code>UNKNOWN</code> . This indicates that the <code>timeToLive</code> 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.

POST /referencedata/sets response codes

Table 1367: POST /referencedata/sets response codes

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

Response Description

Information about the new 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
}
```

GET /referencedata/tables *DEPRECATED*

Retrieve a list of all reference tables.

GET /referencedata/tables resource details

Table 1368: GET /referencedata/tables resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /referencedata/tables response codes

Table 1369: GET /referencedata/tables response codes

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

Response Description

A list of all 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",
    "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>"
    }
  },
  {
    "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>"
    }
  },
  {
    "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>"
    }
  }
]
```

```

    }
  ]

```

DELETE /referencedata/tables/{name} DEPRECATED

Remove a reference table or purge its contents.

DELETE /referencedata/tables/{name} resource details

Table 1370: DELETE /referencedata/tables/{name} resource details

MIME Type
application/json

DELETE /referencedata/tables/{name} request parameter details

Table 1371: 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 . A value of true indicates that the reference table should have its contents purged and keep the reference table structure. If the value is false or not specified the reference table is removed completely.

DELETE /referencedata/tables/{name} response codes

Table 1372: DELETE /referencedata/tables/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference table had its contents purged.
204		The reference table is removed.
404	1002	The reference table does not exist.
409	1004	The reference table cannot be deleted because it is being used by other objects.
422	1005	A request parameter is not valid.
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>"
  }
}
```

GET /referencedata/tables/{name} DEPRECATED

Returns the reference table that is identified by `name`. If provided, `limit` specifies the number of records to return starting at the record that is specified by `offset`. If not specified, then the first 20 records are returned.

GET /referencedata/tables/{name} resource details

Table 1373: GET /referencedata/tables/{name} resource details

MIME Type
application/json

GET /referencedata/tables/{name} request parameter details

Table 1374: 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	Long	text/plain	Optional. The number of records to return. The default value is 20.
offset	query	Optional	Long	text/plain	Optional. The offset value. This indicates to retrieve values that start from the offset value rather than from the beginning of the reference table. The default value is 0.

GET /referencedata/tables/{name} response codes

Table 1375: GET /referencedata/tables/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference table is 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 that is identified by the name that is specified in the request. The portion of the reference table data that is returned depends on the limit and offset specified in the request.

Response Sample

```
{
  "name": "String",
  "elementType": "ALN",
  "createdTime": 13988888888888,
  "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": 13988888888888,
        "lastSeen": 13988888888888
      }
    },
    "String3": {
      "String1": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      },
      "String2": {
        "value": "String",
        "source": "String",
        "firstSeen": 13988888888888,
        "lastSeen": 13988888888888
      }
    },
    "String1": {
      "String1": {
        "value": "String",
        "source": "String",

```


Table 1378: DELETE /referencedata/tables/{name}/{outerKey}/{innerKey} response codes

HTTP Response Code	Unique Code	Description
200		The reference table had a value removed.
404	1002	The reference table does not exist.
404	1003	The record does not exist in the reference table.
422	1005	A request parameter is not valid.
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>"
  }
}
```

POST /referencedata/tables/{name} DEPRECATED

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.

POST /referencedata/tables/{name} resource details

Table 1379: POST /referencedata/tables/{name} resource details

MIME Type
application/json

POST /referencedata/tables/{name} request parameter details

Table 1380: 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 <code>reference data api</code> .

POST /referencedata/tables/{name} response codes

Table 1381: POST /referencedata/tables/{name} response codes

HTTP Response Code	Unique Code	Description
200		The reference table 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>"
  }
}
```

```
}
}
```

POST /referencedata/tables DEPRECATED

Create a new reference table.

POST /referencedata/tables resource details

Table 1382: POST /referencedata/tables resource details

MIME Type
application/json

POST /referencedata/tables request parameter details

Table 1383: 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	ReferenceDataType	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 keyNameTypes parameter. The allowed values are ALN (alphanumeric), ALNIC (alphanumeric ignore case), IP (IP address), NUM (numeric), PORT (port number), or DATE . 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	ReferenceDataTimeoutType	text/plain	Optional. The allowed values are FIRST_SEEN , LAST_SEEN , and UNKNOWN . The default value is UNKNOWN . This indicates that 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	KeyNameType[]	application/json	Optional. A JSON formatted string. This array creates the inner key names and corresponding value types for the table

POST /referencedata/tables response codes

Table 1384: POST /referencedata/tables response codes

HTTP Response Code	Unique Code	Description
201		A new reference table was successfully created
409	1004	The reference table was not created, because the name is already in use. Change the name and try again.

Table 1384: POST /referencedata/tables 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 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>"
  }
}
```

Scanner endpoints

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

POST /scanner/profiles/create DEPRECATED

Initiates a request to create a new scanProfile.

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

POST /scanner/profiles/create resource details

Table 1385: POST /scanner/profiles/create resource details

MIME Type
text/plain

POST /scanner/profiles/create request body details

Table 1386: POST /scanner/profiles/create request body details

Parameter	Data Type	MIME Type	Description	Sample
scanProfile	ScanRequest	application/json	null	null

POST /scanner/profiles/create response codes

Table 1387: 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

GET /scanner/profiles *DEPRECATED*

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

GET /scanner/profiles resource details

Table 1388: GET /scanner/profiles resource details

MIME Type
application/json

There are no parameters for this endpoint.

GET /scanner/profiles response codes

Table 1389: 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 QVM

Response Sample

POST /scanner/profiles/start DEPRECATED

Initiates a request to start an already created scanProfile.

The request takes one parameter - scanProfileId. To get a list of scanProfileIds, simply 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.

POST /scanner/profiles/start resource details

Table 1390: POST /scanner/profiles/start resource details

MIME Type
text/plain

POST /scanner/profiles/start request parameter details

Table 1391: 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

POST /scanner/profiles/start response codes

Table 1392: 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