AVANAN

A **Check Point** Company

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AVANAN

API Reference Guide

CHECK POINT™

Table of Contents

Overview

This guide describes the available REST API for Avanan customers to automate the technical and business use cases.

Supported Use Cases:

- *"Managing Security Events" on page 12* – Searching for and acting on the detected threats

- *"Managing Secured Entities" on page 33* – Searching for files/emails/messages and performing actions on them

- *"Managing Exceptions" on page 66* – Managing Whitelist and Blacklist

Useful Resources

- Swagger interface is available in this link.

- For the code sample, see this link.

Executing API Calls

API Authentication and Authorization

Avanan provides authentication and authorization sequence using **Client ID** and a **Secret Key**. These are used to obtain an API Access Token and sign all the requests sent to the API.

If you haven't received the **Secret Key** and **Application ID**, contact *Avanan Support*.

> ℹ **Note** - If you are an MSP and want to use MSP Smart APIs to manage your customers, you do not need to generate a secret key for every customer. Instead, use the MSP key you received from *Avanan Support*.

Generating API Access Token

URI - GET

To use this endpoint, send a GET request to retrieve a specific security event by its Avanan ID: `/auth`

Request

The request includes HTTP headers obtained while registering to the Avanan API service and calculated by the API consumer.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID – Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6
x-av-token	String	Yes	Send empty on this request only	
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	For more details, see *"Calculating x-av-sig for token generation" below*.

Calculating x-av-sig for token generation

The request includes HTTP headers obtained when you register to Avanan API service and calculated by the API consumer when you issue an API request.

To calculate the signature value (**x-av-sig**) for the request:

1. Concatenate these parameters in this order:

   a. x-av-req-id

   b. x-av-app-id

   c. x-av-date

   d. Secret Key

2. Invoke the resulting value to base 64.

3. Do SHA-256 on the resulting value.

Example:

Let us assume the secret key is **my_secret_key**. Calculating the **x-av-sig**:

```
x-av-req-id: "d290f1ee-6c54-4b01-90e6"
x-av-app-id: "US:myapp29"
x-av-date: "2021-04-10T00:00:00.000Z"
Secret Key: "my_secret_key"
```

To calculate **x-av-sig**:

```
sha256(
    base64(
        d290f1ee-6c54-4b01-90e6US:myapp292021-04-10T00:00:00.000Zmy_
secret_key
    )
)
```

The resulting value is:

```
sha256(
    ZDI5MGYxZWUtNmM1NC00YjAxLTkwZTZVUzpteWFwcDI5MjAyMS0wNC0xMFQwMDowMD
owMC4wM DBabXlfYXZhbmFuX3NlY3JldA==
)
```

The resulting signature value (**x-av-sig**) is:

```
2462b23346ab0642b65d7d094aca5fb4c29fd96d0468deceae2704d258e81497
```

Therefore, when you send the token generation request, you must include this header:

x-av-sig:
"`2462b23346ab0642b65d7d094aca5fb4c29fd96d0468deceae2704d258e81497`"

Request String Parameters

None

Request Body

Not applicable for GET method.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see *"URLs and URL Base" on the next page*.

```
curl -X GET -H "Accept: application/json" \
    -H "x-av-req-id: d290f1ee-6c54-4b01-90e6" \
    -H "x-av-token: '' " \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2021-04-10T00:00:00.000Z" \
    -H "x-av-sig:
2462b23346ab0642b65d7d094aca5fb4c29fd96d0468deceae2704d258e81497" \
    https://smart-api-production-1-us.avanan.net/v1.0/auth
```

Response

The response obtained from the service includes an HTTP response code and a token (JWT). This token is valid for 24 hours after successful authentication.

Note - You must send this token as the **x-av-token** header value with all the API consecutive calls.

Calculating API request signature for all requests

Calculating header signature x-av-sig

The client application must provide request HTTP headers when it issues API calls other than **/auth** token generation requests.

The **x-av-token** obtained in the auth sequence is one of these headers, but the **x-av-sig** signature must be calculated for each request.

To calculate the signature value (**x-av-sig**) for the request:

1. Concatenate these parameters in this order:

    a. x-av-req-id

    b. x-av-app-id

    c. x-av-date

    d. Request Text

    e. Secret Key

2. Invoke the resulting value to base 64.

3. Do SHA-256 on the resulting value.

The value of "Request Text" is the endpoint string.

For example, "/v1.0/event/<event_id>" (with the actual id replaced) or "/v1.0/search/query".

Note - You are assigned a **Secret Key** during API registration by Avanan. Use the same key to sign a request for token generation as explained in *"Calculating x-av-sig for token generation" on page 6*.

URLs and URL Base

You must direct all API calls to the Avanan API to these URI bases according to the region.

Region	URI Base
USA	smart-api-production-1-us.avanan.net
Europe	smart-api-production-1-eu.avanan.net
Canada	smart-api-production-1-ca.avanan.net
Australia	smart-api-production-5-ap.avanan.net
United Kingdom (UK)	smart-api-production-1-euw2.avanan.net
United Arab Emirates (UAE)	smart-api-production-1-mec1.avanan.net
India	smart-api-production-1-aps1.avanan.net

Note - To comply with regional data protection laws, all regions operate independently. You cannot access data from one region by calling the other region endpoint. The **Client ID** and **Secret Key** are also regional.

Scoping an API Call

You can associate one app client to multiple Avanan tenants. This allows you to query multiple portals in the same region, mainly Managed Service Providers (MSP).

Our MSP system automatically updates the list of associated portals.

To verify the available scopes for your app client, call the **GET /scopes** endpoint. It returns a list of the scopes available at that moment for your app client.

Note - Scopes follow *{farm}:{tenant}* format, where farm is the internal Avanan identifier of a complete regional compute unit. Tenant is your unique identifier.Avanan URLs always follow *{tenant}.avanan.net* schema.

Query endpoints (**POST /event/query**, and **/POST search/query**) have scopes as an optional argument. If you have a multi-scope app client, you can pass a list of scopes to narrow down the query to a set of tenants. By default, queries are performed on all the available scopes.

Action related endpoints (**POST /action/event**, **POST /action/entity** and **GET /task/{task_id}**) have single scope only. If you have a multi-scope app, the payload's optional "scope" argument is mandatory, and the API returns 400 if none is passed.

Response Codes

The HTTP(S) standard response codes returned by the API:

Code	Message	Description
200	Success	Request processed successfully.
400	Bad Request	Server cannot process the request.
401	Unauthorized	Missing token in the header, token expired or token invalid/malformed.
403	Forbidden	Data not available for the customer.
404	Not found	Server cannot find the requested resource.
429	Restrictions	Too many requests.
500	Server Error	Server encountered an unexpected condition.

Getting the list of supported scopes

URI - GET

To use this endpoint, send a GET request to receive a list of scopes supported by the App Client: `/scopes`

Request

The request includes HTTP headers obtained when you register to Avanan API service and calculated by the API consumer.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID - Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6
x-av-token	String	Yes	Send empty on this request only	
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	For more details, see *"Getting the list of supported scopes" above*.

Request String Parameters

None

Request Body

Not applicable for GET method.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see *"URLs and URL Base" on page 8*.

```
curl -X GET -H "Accept: application/json" \
    -H "x-av-req-id: d290f1ee-6c54-4b01-90e6" \
    -H "x-av-token: tkn8546ffffggd9d8934593" \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2021-04-10T00:00:00.000Z" \
    -H "x-av-sig:
2462b23346ab0642b65d7d094aca5fb4c29fd96d0468deceae2704d258e81497" \
    https://smart-api-production-1-us.avanan.net/v1.0/scopes
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure.

The structure consists of **responseEnvelope** structure and a **responseData** object that holds an array of scopes supported by the App Client.

Response Structure

A valid response obtained from the service (JSON format):

```
{
    "responseEnvelope":
    {
        "requestId": "string",
        "responseCode": 200,
        "responseText": "string",
        "additionalText": "string",
        "recordsNumber": 1,
        "scrollId": "string"
    },
    "responseData": [ "us:customername"]
}
```

Managing Security Events

Get the details of a specific security event

URI - GET

To use this endpoint, send a GET request to receive a specific security event by its Avanan ID: `/event/{eventId}`

Request

The request includes HTTP headers obtained during the authentication/authorization process and used to sign the request together with request string parameters.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID – Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6
x-av-token	String	Yes	Send empty on this request only	
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	For more details, see *"Managing Security Events" above*.

Request String Parameters

Header	Type	Required	Format	Description/Sample
eventId	String	Yes		Avanan internal request ID, such as: "ebb3e4bc8a9b14d7a529bb54ea6991b6"

Request Body

Not applicable for GET method.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see *"URLs and URL Base" on page 8*.

```
curl -X GET -H "Accept: application/json" \
    -H "x-av-req-id: d290f1ee-6c54-4b01-90e6-d701748f0851" \
    -H "x-av-token: tkn8546ffffggd9d8934593" \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2016-08-29T09:12:33.001Z \
    -H "x-av-sig: tkn8jmveolrrtertr9d8934593 \
    https://smart-api-production-1-
us.avanan.net/v1.0/event/ebb3e4bc8a9b14d7a529bb54ea6991b6
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. It consists of **responseEnvelope** structure and a **responseData** object that holds an array of security events.

Each event consists of event details and an array of actions taken on the event entity (under the **actions** array). The response also includes an array of available actions to take on the event and their relevant parameters (**availableEventActions** array).

Response Structure

A valid response obtained from the service (JSON format):

```
{
    "responseEnvelope":
        {
            "requestId": "string",
            "responseCode": 0,
            "responseText": "string",
            "additionalText": "string",
            "recordsNumber": 1,
            "totalRecordsNumber": 1,
            "scrollId": "string"
        },
    "responseData":
        [
            {
                "eventId": "string",
```

```
                "cusomerId": "string",
                "saas": "string",
                "entityId": "string",
                "state": "string",
                "type": "string",
                "confidenceIndicator": "string",
                "eventCreated": "string",
                "severity": "string",
                "description": "string",
                "data": "string",
                "additionalData": {},
                "availableEventActions":
                    [
                        {
                            "actionName": "string",
                            "actionParameter": "string"
                        }
                    ],
                "actions":
                    [
                        {
                            "actionType": "string",
                            "createTime": "string",
                            "relatedEntityId": "string"
                        }
                    ]
            }
        ]
    }
```

Response Parameters

These are the response parameters:

Parameter	Type	Description
responseEnvelope	Object	Container for metadata properties.
requestId	String	Request ID (from the request header **x-av-req-id** value)
responseCode	Integer	0 = Success Other values = Failure
responseTest	String	The text value of the response
additionalText	String	Additional information

Parameter		Type	Description
	recordsNumber	Integer	Number of records in response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	An array of event entities
	eventId	String	A unique ID used for scrolling
	customerId	String	Avanan customer ID
	saas	String	Name of the relevant SaaS
	entityId	String	Unique ID of the relevant SaaS entity
	state	String	Current state of the security event
	type	String	Security event type
	confidenceIndicator	String	Confidence Indicator
	eventCreated	String	Time the security event was created
	severity	String	Lowest, Low, Medium, High, Critical
	description	String	Short explanation of the event
	data	String	Description in not resolved form
	additionalData	Object	Raw data in description field
availableEventActions		Array	List of available actions
	actionName	String	Name of available action
	actionParameter	String	Action name
actions		Array	A list of actions performed on this event
	actionType	String	Name of performed action
	createTime	String	Date when the action was performed
	relatedEntityId	String	Unique ID of the relevant SaaS entity

Response Sample

A valid response from the service:

```json
{
    "responseEnvelope":
    {
        "responseCode": 0,
        "responseTest": "Success",
        "additionalText": "",
        "recordsNumber": 1,
        "totalRecordsNumber": 1,
        "scrollId": "34234345454353343"
    },
    "responseData":
    {
        "eventId": "7ded0371a3e1475c9a877e452f23a049",
        "customerId": "us:customername",
        "saas": "office365_emails",
        "entityId": "639c16e1aaa3affd5d3fa4fda5e75765",
        "state": "dismissed",
        "type": "dlp",
        "confidenceIndicator": "malicious",
        "eventCreated": "2020-07-24T20:58:27.073355+00:00",
        "severity": "Low",
        "data": "",
        "description": "DLP Engine has detected a leak in 'please see
my credit data' from user@customer.com",
        "additionalData": "some links here and additional parameters",
        "availableEventActions": [
            {
                "actionName": "dismiss",
                "actionParameter":
{"eventId":"7ded0371a3e1475c9a877e452f23a049"}
            },
            {
                "actionName": "severityChange",
                "actionParameter": {"newSeverity":"Low"}
            },
            {
                "actionName": "severityChange",
                "actionParameter": {"newSeverity":"Medium"}
            },
            {
            "actionName": "severityChange",
            "actionParameter": {"newSeverity":"High"}
            },
            {
            "actionName": "severityChange",
            "actionParameter": {"newSeverity":"Highest"}
```

```
            },
        ]
    }
  }
```

Search for a security event

URI - POST

To use this endpoint, send a POST request to retrieve a specific security event or multiple events by flexible query criteria: `/event/query`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) with request parameters posted on the request body.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID – Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6-d701748f085 1
x-av-token	String	Yes	Token	Token obtained in the authentication sequence. tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593 For more details, see *"Search for a security event" above*.

Request String Parameters

None

Request Body

All applicable request parameters are posted on the request body JSON:

```
{
    "requestData":
        {
            "scopes": ["string"],
            "eventTypes": ["string"],
            "eventStates": ["string"],
            "severities": ["string"],
            "saas": ["string"],
            "eventIds": ["string"],
            "confidenceIndicator": "string",
            "startDate": "string",
            "endDate": "string",
            "description": "string",
            "scrollId": "string"
        }
}
```

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
scopes	Array of String			List of scopes
eventTypes	Array of String			List of required event types. Possible values are: ■ Phishing ■ Malware ■ Suspicious malware ■ DLP ■ anomaly ■ Shadow_it ■ Malicious_url_click ■ Malicious_url
eventStates	Array of String			List of required event states. Possible values are: ■ new ■ detected ■ pending ■ remediated ■ dismissed ■ exception

Parameter	Type	Required	Format	Description/Sample
severities	Array of String			List of required event severity. Possible values are: • lowest • low • medium • high • critical
startDate	String	Yes	Date-time	Start of required time frame. Example: '2016-08-29T09:12:33.001Z'
endDate	String		Date-time	End of required time frame. Example: '2016-08-29T09:12:33.001Z'
saas	Array of String			Name of required SaaS. Possible values: • office365_emails • office365_onedrive • office365_sharepoint • sharefile • slack • ms_teams • google_mail
description	String			Substring of the event description. Used to search for the text in the event description field. For example, if the value of this parameter is inbox@email.com then this condition is True if a string inbox@email.com is included in the event description field.

Parameter	Type	Required	Format	Description/Sample
eventIds	Array of String			This parameter is used to retrieve a list of events by event ID which only requires.
confidenceIndicator	String			Confidence indicator. Example: 'malicious'
scrollId	String	Yes (paging)		This parameter is used to retrieve large sets of results. The first response includes this parameter and partial result. Use this parameter to retrieve the rest of the results.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see *"URLs and URL Base" on page 8*.

```
curl -X POST -H "Accept: application/json" \
    -H "x-av-req-id: d290f1ee-6c54-4b01-90e6-d701748f0851" \
    -H "x-av-token: tkn8546ffffggd9d8934593" \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2016-08-29T09:12:33.001Z" \
    -H "x-av-sig: tkn8jmveolrrtertr9d8934593" \
    -d "{"startDate":" "2020-01-01T00:00:00.000Z"}" \
    https://smart-api-production-1-us.avanan.net/v1.0/event/query
```

This sample queries every security event.

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. It is similar to the GET request per entity (which returns a single security event in an array) but returns possibly an array of security events.

If the number of returned events is smaller than the total number of possible responses, send a consecutive call with the returned value of **scrollId** to continue.

Response Structure

A valid response obtained from the service (JSON format):

```json
{
    "responseEnvelope":
    {
        "requestId": "string",
        "responseCode": 0,
        "responseText": "string",
        "additionalText": "string",
        "recordsNumber": 0,
        "totalRecordsNumber": 0,
        "scrollId": "string"
    },
    "responseData": [
    {
        "eventId": "string",
        "customerId": "string",
        "saas": "string",
        "state": "string",
        "entityId": "string",
        "type": "string",
        "confidenceIndicator": "string",
        "eventCreated": "string",
        "severity": "string",
        "description": "string",
        "data": "string",
        "additionalData": {},
        "availableEventActions": [
            {
                "actionName": "string",
                "actionParameter": "string"
            }
        ],
        "actions": [
            {
                "actionType": "string",
                "createTime": "string",
                "relatedEntityId": "string"
            }
        ]
    }
    ]
}
```

Response Parameters

The response parameters:

Parameter		Type	Description
responseEnvelope		Object	A container of metadata properties
	requestId	String	Request ID (from the request header **x-av-req-id** value)
	responseCode	Integer	0 = Success Other values = Failure
	responseTest	String	The text value of the response
	additionalText	String	Additional information
	recordsNumber	Integer	Number of records in response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	Array of event entities
	eventId	String	A unique ID used for scrolling
	customerId	String	Avanan customer ID
	saas	String	Name of the relevant SaaS
	entityId	String	Unique ID of the relevant SaaS entity
	state	String	Current state of the security event
	type	String	Security event type
	confidenceIndicator	String	Confidence indicator
	eventCreated	String	Security event creation time
	severity	String	Lowest, Low, Medium, High, Critical
	description	String	Short explanation of the event
	data	String	Description in the not resolved form
	additionalData	Object	Raw data of description field
availableEventActions		Array	List of available actions
	actionName	String	Name of available action

Parameter		Type	Description
	actionParameter	String	Action parameter name
	actions	Array	A list of actions performed on this event
	actionType	String	Name of the performed action
	createTime	String	Date when the action was performed
	relatedEntityId	String	Unique ID of the relevant SaaS entity

Response Sample

A valid response from the service:

```
{
    "responseEnvelope":
    {
        "responseCode": 0,
        "responseTest": "Success",
        "additionalText": "",
        "recordsNumber": 1,
        "totalRecordsNumber": 1,
        "scrollId": "34234345454353343"
    },
    "responseData":
    {
        "eventId": "7ded0371a3e1475c9a877e452f23a049", "customerId":
"us:customername",
        "saas": "office365_emails",
        "entityId": "639c16e1aaa3affd5d3fa4fda5e75765", "state":
"dismissed",
        "type": "dlp", "confidenceIndicator": "malicious",
        "eventCreated": "2020-07-24T20:58:27.073355+00:00",
        "severity": "Low",
        "data": "",
        "description": "DLP Engine has detected a leak in 'please see
my credit data' from user@customer.com", "additionalData": "some links
here and additional parameters",
        "availableEventActions":
            [
                {
                    "actionName": "dismiss",
                    "actionParameter":
                }
            "eventId":"7ded0371a3e1475c9a877e452f23a049"
```

```
                    {
                    },
                    {
                        "actionName": "severityChange",
                        "actionParameter": {"newSeverity":"Low"}
                    },
                    {

                        "actionName": "severityChange",
                        "actionParameter": {"newSeverity":"Medium"}
                    },
                    {

                        "actionName": "severityChange",
                        "actionParameter": {"newSeverity":"High"}
                    },
                    {

                        "actionName": "severityChange",
                        "actionParameter": {"newSeverity":"Highest"}
                    },
                ]
            }
        }
```

Taking actions on security events

Single security event

URI - POST

To use this endpoint, send a POST request to perform a single action on a specific security event or multiple events (a single action is supported per multiple events): `/action/event`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) with request parameters posted on the request body.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID – Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6-d701748f085 1

Header	Type	Required	Format	Description/Sample
x-av-token	String	Yes	Token	Token obtained in the authentication sequence. tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593 For more details, see *"Taking actions on security events" on the previous page*.

Request String Parameters

None

Request Body

All applicable request parameters are posted on the request body JSON:

```
{
    "requestData":
    {
        "scope”: "string",
        "eventIds": ["string"],
        "eventActionName": ["string"],
        "eventActionParam": ["string"]
    }
}
```

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
requestData	Object			A container for action request
scope	String			Single scope string

Parameter	Type	Required	Format	Description/Sample
entityIds	Array of String	Yes		An array of event ID identifiers that the single action applies to
eventActionName	String	Yes		Action name to take
eventActionParam	String			Optional string with all action parameters

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see *"URLs and URL Base" on page 8*.

```
curl -X POST -H "Accept: application/json" \
    -H "x-av-req-id: d290f1ee-6c54-4b01-90e6-d701748f3351" \
    -H "x-av-token: tkn8546ffffggd9d8934593" \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2016-08-29T09:12:33.001Z" \
    -H "x-av-sig: tkn8jmveolrrtertr9d8934593" \
    -d "{"requestData": {"scope": "us:customername", "eventIds":
["7ded0371a3e1475c9a877e452f23a049"],"eventActionName":
["dismiss"],"eventActionParam": [""]} }" \
    https://smart-api-production-1-us.avanan.net/v1.0/action/event
```

This request sample dismisses the event with event ID:
"7ded0371a3e1475c9a877e452f23a049"

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The JSON structure contains response envelope and response data, which have a detailed response code for each **entityId** in the request.

Response Structure

A valid response obtained from the service (JSON format):

```
{
    "responseEnvelope":
    {
        "requestId": "string",
        "responseCode": integer,
```

```
        "responseText": "string",
        "additionalText": "string",
        "recordsNumber": integer,
        "totalRecordsNumber": integer,
        "scrollId": "string"
    },
    "responseData": [
    {
        "eventId": "string",
        "entityId": "string",
        "taskId": integer
    }
    ]
  }
```

Response Parameters

The response parameters:

Parameter	Type	Description
responseEnvelope	Object	A container of metadata properties
requestId	Integer	Request ID (from the request header **x-av-req-id** value)
responseCode	Integer	0 = Success Other values = Failure
responseTest	String	The text value of the response
additionalText	String	Additional information
recordsNumber	Integer	Number of records in response
totalRecordsNumber	Integer	Total number of records
scrollId	String	Unique ID used for scrolling
responseData	Object	Array of security event identifiers and their corresponding action response codes and additional text
eventId	String	Security event ID the action applies to
entityId	String	Avanan event SaaS entity ID the action applies to

Parameter	Type	Description
taskId	Integer	Unique ID of the Avanan task

Response Sample

A valid response from the service:

```
{
    "responseEnvelope":
    {
        "requestId": "d290f1ee-6c54-4b01-90e6-d701748f3351",
        "responseCode": 0,
        "responseText": "success",
        "additionalText": "",
        "recordsNumber": 1,
        "totalRecordsNumber": 1,
        "scrollId": "9898989898"
    },
    "responseData": [
    {
        "eventId": "7ded0371a3e1475c9a877e452f23a049",
        "entityId": "a60ba316c8d4f19b2913194386fb0070",
        "taskId": "123445311234"
    }
    ]
}
```

Action execution status

URI - GET

To use this endpoint, send a GET request to get the state of action in the queue. `/task/ {taskId}`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) with request string parameters.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID – Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6-d701748f085 1
x-av-token	String	Yes	Token	Token obtained in the authentication sequence. tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593 For more details, see *"Action execution status" on the previous page*.

Request String Parameters

Header	Type	Required	Format	Description/Sample
taskId	String	Yes		Avanan Task ID, such as: "4b8312c5b04d4a6d884662237fa2e25d"

Query String

Query	Type	Required	Format	Description/Sample
scope	String	No		Single scope string

Request Body

Not applicable for GET method.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see *"URLs and URL Base" on page 8*.

```
curl -X GET -H "Accept: application/json" \
    -H "x-av-req-id: d290f1ee-6c54-4b01-90e6-d701748f0851" \
    -H "x-av-token: tkn8546ffffggd9d8934593" \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2016-08-29T09:12:33.001Z" \
    -H "x-av-sig: tkn8jmveolrrtertr9d8934593" \
    https://smart-api-production-1-
us.avanan.net/v1.0/task/4b8312c5b04d4a6d884662237fa2e25d
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure.

Response Structure

A valid response obtained from the service (JSON format):

```
{
    "actions":
    [
        {
            "action_created": "string",
            "action_id": "string",
            "action_name": "string",
            "action_status": "string",
            "action_type": "string",
            "action_updated": "string",
            "hash_key": "string"
        }
    ],
    "created": "string",
    "customer": "string",
    "id": "numeric",
    "name": "string",
    "owner": "string",
    "progress": "numeric",
    "sequential": "boolean",
    "status": "string",
    "total": "numeric",
    "type": "string",
    "updated": "string"
}
```

Response Parameters

The response parameters:

Parameter		Type	Description
responseEnvelope		Object	A container of metadata properties
	requestId	String	Request ID (from the request header **x-av-req-id** value)
	responseCode	Integer	0 = Success Other values = Failure
	responseTest	String	The text value of the response
	additionalText	String	Additional information
	recordsNumber	Integer	Number of records in the response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	Array of event entities
	actions	Array of Object	Array of action data
	created	String	Date when the task was created
	customer	String	Customer name
	id	String	Unique ID of the task
	name	String	Name of the task
	owner	String	Owner's email
	progress	Integer	Progress indicator
	sequential	Boolean	Sequential flag
	status	String	init, inprogress, completed, failed, stopped, paused
	total	Integer	Total number
	type	String	Action type
	updated	String	Date when action was updated

Response Sample

A valid response from the service:

```json
{
    "responseEnvelope":
    {
        "requestId": "d290f1ee-6c54-4b01-90e6-d701748f3351",
        "responseCode": 0,
        "responseText": "success",
        "additionalText": "",
        "recordsNumber": 1,
        "scrollId": "9898989898"
    },
    "responseData":
        {
            "actions":
                [
                    {
                        "action_created": "2021-08-04
11:45:38.823008",
                        "action_id": "1628077538822988",
                        "action_name": "Quarantine
14cc6d3aec558cca4de1363166fa42f9",
                        "action_status": "init",
                        "action_type": "Quarantine_
14cc6d3aec558cca4de1363166fa42f9",
                        "action_updated": "2021-08-04
11:45:38.823015",
                        "hash_key":
"us##customername##1628077538799978"
                    }
                ],
            "created": "2021-08-04 11:45:38.799984",
            "customer": "customername",
            "id": 1628077538799978,
            "name": "Office365 Emails Manual Action",
            "owner": "service@avanan.com",
            "progress": 0,
            "sequential": true,
            "status": "inprogress",
            "total": 1,
            "type": "office365_emails_manual_action",
            "updated": "2021-08-04 11:45:38.800076"
        }
}
```

Managing Secured Entities

Get the details of a specific entity

URI - GET

Use this endpoint to retrieve Avanan SaaS entity details, if you have the Avanan entity ID. Avanan keeps a unique global entity identifier for every entity in the system. If you have a single entity ID, you can extract all entity details and related details in a single API call: `/search/entity/{entityId}`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) with request string parameters.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID – Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6-d701748f085 1
x-av-token	String	Yes	Token	Token obtained in the authentication sequence. tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593 For more details, see *"Managing Secured Entities" above*.

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
entityId	String	Yes		Avanan internal entity ID, such as: "f05b74da3ee859eea41aeac40aaad3c2"

Request Body

Not applicable for GET method.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see *"URLs and URL Base" on page 8*.

```
curl -X GET -H "Accept: application/json" \
    -H "x-av-req-id: d290f1ee-6c54-4b01-90e6-jjshduhuh" \
    -H "x-av-token: tkn8546ffffggd9d8934593" \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2021-02-28T09:12:33.001Z" \
    -H "x-av-sig: tkn8jmveolrrtertr9d8934593" \
    https://smart-api-production-1-
us.avanan.net/v1.0/search/entity/f05b74da3ee859eea41aeac40aaad3c2
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure.

The structure includes a **responseEnvelope** structure and a **responseData** object that holds an array of returned SaaS entities (a single entity in this case). A SaaS entity structure includes:

1. A common generic area with general SaaS entity details (common to all SaaS entities) **entityInfo**.

2. Specific SaaS - Related payload details **entityPayload**. This section is SaaS-specific and holds all related entity data.

3. An array of security tools scan results that appears under the **entitySecurityResults**.

4. An array of actions taken on the entity that appears under the **entityActions**.

5. An array of possible actions that can be taken on the entity with the corresponding parameters (**entityAvailableActions** array).

Response Structure

The response structure obtained from the service (JSON format):

```json
{
    "responseEnvelope":
    {
        "requestId": "string",
        "responseCode": 0,
        "responseText": "string",
        "additionalText": "string",
        "recordsNumber": 1,
        "totalRecordsNumber": 1,
        "scrollId": "string"
    },
    "responseData": [
    {
        "entityInfo":
        {
            "entityId": "string",
            "customerId": "string",
            "saas": "string",
            "saasEntityType": "string",
            "entityCreated": "dateTime",
            "entityUpdated": "dateTime",
            "entityActionState": "string"
        },
        "entityPayload": {},
        "entitySecurityResults":
        {
            "combinedVerdict":
            {
                "ap": "string",
                "dlp": "string",
                "clicktimeProtection": "string",
                "shadowIt": "string",
                "av": "string"
            },
            "ap":
            {
                "entityId": "string",
                "entityType": "string",
                "payload": {},
                "score": "string",
                "securityResultEntityId": "string",
                "securityResultEntityType": "string",
                "statusCode": "string",
                "statusDescription": "string",
                "verdict": "string"
            },
```

```
        "dlp":
        {
            "entityId": "string",
            "entityType": "string",
            "payload": {},
            "score": "string",
            "securityResultEntityId": "string",
            "securityResultEntityType": "string",
            "statusCode": "string",
            "statusDescription": "string",
            "verdict": "string"
        },
        "clicktimeProtection":
        [
        {
            "entityId": "string",
            "entityType": "string",
            "payload": {},
            "score": "string",
            "securityResultEntityId": "string",
            "securityResultEntityType": "string",
            "statusCode": "string",
            "statusDescription": "string",
            "verdict": "string"]},
        "shadowIt": [
        {
            "entityId": "string",
            "entityType": "string",
            "payload": {},
            "score": "string",
            "securityResultEntityId": "string",
            "securityResultEntityType": "string",
            "statusCode": "string",
            "statusDescription": "string",
            "verdict": "string"
        ]},
        "av": [
            {
                "entityId": "string",
                "entityType": "string",
                "payload": {},
                "score": "string",
                "securityResultEntityId": "string",
                "securityResultEntityType": "string",
                "statusCode": "string",
                "statusDescription": "string",
                "verdict": "string"]
            }
        },
        "entityActions": [
```

```
          {
              "entityActionName": "string",
              "entityActionDate": "dateTime",
              "entityActionResponseCode": "integer",
              "entityActionResponseText": "string",
              "entityActionState": "string"
          }],
       "entityAvailableActions":
       [{
              "entityActionName": "string",
              "entityActionParam": "string"
       }]
     }]
   }
```

Response Parameters

The response parameters:

Parameter		Type	Description
responseEnvelope		Object	A container of metadata properties
	requestId	String	Request ID (from the request header **x-av-req-id** value)
	responseCode	Integer	0 = Success Other values = Failure
	responseTest	String	The text value of the response
	additionalText	String	Additional information
	recordsNumber	Integer	Number of records in the response
	totalRecordsNumber	Integer	Total number of records (always one here)
	scrollId	String	Unique ID used for scrolling

Parameter		Type	Description
responseData		Array	Array of entities
responseData/entityInfo		Object	Generic SaaS entity details
	entityId	String	Unique ID of the Avanan entity
	customerId	String	Avanan customer ID
	saas	String	Avanan supported SaaS name
	saasEntityType	String	Avanan supported SaaS entity type name: message, user, file etc.
	entityCreated	DateTime	Time entity was created
	entityUpdated	DateTime	Time entity was updated
	entityActionState	String	If an action was taken on the entity, then it shows the entity SaaS state.
responseData/ entityPayload		Object	This object holds SaaS specific data for the Avanan entity (email entity data, Drive entity data etc.).
responseData/ entitySecurityResults		Array	This array of objects holds security tools scan data
	entityId	String	Unique ID of the relevant SaaS entity
	entityType	String	Avanan supported SaaS entity type name: message, user, file etc.

Parameter		Type	Description
	payload	Object	An entire payload of a security tool scan
	score	String	Security tool result score
	securityResultEntityId	String	Unique ID of the relevant security result entity
	securityResultEntityType	String	Security result entity type
	statusCode	String	Security tool scan status code
	statusDescription	String	Security tool scan status description
entityActions		Array	List of available actions
	entityActionName	String	Action Name
	entityActionDate	DateTime	Action activation time
	entityActionResponseCode	integer	Action response code
	entityActionResponseText	String	Action response text
	entityActionState	Integer	Indication for the action state
entityAvailableActions		Array	A list of available actions for the entity
	entityActionName	String	Action name
	entityActionParam	String	Additional action parameter

Additional Response Parameters for Email (responseData/entityPayload)

The **entityPayload** object specific details provided for email entity SaaS search:

Note - Some of the SaaS search may appear in the response under the **entityPayload** response object.

Parameter		Type	Description
responseData/ entityPayload		Object	This object holds SaaS specific data for the Avanan entity (email entity data, Drive entity data etc).
	internetMessageId	String	Original Office 365/Gmail identifier
	subject	String	Email subject
	received	DateTime	Time email was received
	size	Integer	Email size in KB
	emailLinks	String	Included email links
	attachmentCount	Integer	Number of email attachments
	attachments	Object	An object that describes the email attachment files
	mode	String	Inline | Monitor
	recipients	String	Comma-separated list of recipients
	fromEmail	String	Sender's email address
	fromDomain	String	Senders domain
	fromUser	Object	User object in Avanan platform
	fromName	String	Sender name
	to	String	Comma-separated list of recipients
	toUser	Object	User object in Avanan platform
	cc	Object	User object in Avanan platform
	ccUser	Object	User object in Avanan platform
	bcc	String	Bcc email addresses
	bccUser	Object	User object on Avanan platform
	replyToEmail	String	Email "reply to" address

Parameter		Type	Description
	replyToNickname	String	Email "reply to" nickname if used
	isRead	String	true|false
	isDeleted	String	true|false
	isIncoming	String	true|false
	isInternal	String	true|false
	isOutgoing	String	true|false
	isQuarantined	String	true|false
	isRestored	String	true|false
	isRestoreRequested	String	true|false
	isRestoreDeclined	String	true|false
	saasSpamVerdict	String	Spam verdict value
	SpfResult	String	SPF value combined

Response Sample

A valid response from the service:

```
{
    "responseEnvelope":
    {
        "requestId": "d290f1ee-6c54-4b01-90e6-d701748f3352",
        "responseCode": 0,
        "responseText": "Success",
        "additionalText": "",
        "recordsNumber": 1,
        "totalRecordsNumber": 1,
        "scrollId": ""
    },
    "responseData": [
    {
        "entityInfo":
        {
            "entityId": "b05f596bc33cf53b74ea75e37cf66b98",
            "customerId": "customername",
            "saas": "office365_emails",
            "saasEntityType": "office365_emails_email",
```

```
                "entityCreated": "2020-08-29T09:12:33.001Z",
                "entityUpdated": "2020-08-29T09:12:33.001Z",
                "entityActionState": "Clean"
            },
            "entityPayload":
            {
                "internetMessageId": "<562714b9-aba3-719f-5286-
0b030bbdff77@o365.com>",
                "subject": "this is a test email message",
                "received": "2020-08-29T09:12:33.001Z",
                "size": "35009",
                "emailLinks": "https://www.avanan.com",
                "attachmentCount": "",
                "attachments": "",
                "mode": "inline",
                "recipiants": "developer@avanan.com",
                "fromEmail": "manager@gmail.com",
                "fromDomain": "gmail.com",
                "fromUser": "12d14cf0-9698-4bde-9d6d-e45065dd432de",
                "fromName": "gmail manager",
                "to": "developer@avanan.com",
                "toUser": "
                {
                    \"mail\":\"developer@avanan.com\",
                    \"entity_id\":\"12d14cf0-9698-4bde-9d6d-
e49843598595\",
                    \"entity_type\":\ "office365_emails_user\"
                }",
                "cc": "",
                "ccUser": "",
                "bcc": "",
                "bccUser": "",
                "replyToEmail": "",
                "replyToNickName": "",
                "isRead": "true",
                "isDeleted": "false",
                "isIncoming": "true",
                "isInternal": "false",
                "isOutgoing": "false",
                "isQuarantined": "false",
                "isRestoreRequested": "false",
                "isRestoreDeclined": "false",
                "isRestored": "false",
                "saasSpamVerdict": "", "SpfResult": "pass"
            },
            "entitySecurityResults":
            {
                "combinedVerdict":
                {
                    "ap": "phishing",
```

```
                "dlp": null,
                "clicktimeProtection": null,
                "shadowIt": "clean",
                "av": null
            },
            "ap":
            [{
                "entityId": "a60ca316d8c4f19a2923114380fb0070",
                "entityType": "office365_emails_email",
                "payload":
                {
                    "reasons_by_category":
                    {
                        "sender_reputation":
                        [{
                            "short_text": "Insignificant
historical reputation with sender",
                            "full_text": "The sending email
address hasn't established significant historical reputation with your
                            domain"
                        },
                        {
                            "short_text": "Low-traffic 'From'-
domain",
                            "full_text": "The sender's domain
has very low traffic - often indicating low-trust domains"
                        }
                        ],
                        "links":
                        [{
                            "short_text": "Link to a low-traffic
site",
                            "full_text": "The email contains link
to low-traffic web-sites - often indicating low-trust domains"
                        }]
                    }
                },
                "score": "526.670776",
                "securityResultEntityId":
"a60ca316d8c4f19a2923114380fb0070",
                "securityResultEntityType": "avanan_ap_scan",
                "statusCode": "0", "statusDescription": null,
                "verdict": "phishing"
            }],
            "dlp": null, "clicktimeProtection": null,
            "shadowIt":
            [{
                "entityId": "a60ca316d8c4f19a2923114380fb0070",
                "entityType": "office365_emails_email",
                "payload":
```

```json
                    {
                        "subject": "TEST-0429-1619902351-15",
                        "from": "user@email.com"
                    },
                "score": "0.0",
                "securityResultEntityId":
  "a60ca316d8c4f19a2923114380fb0070",
                "securityResultEntityType": "shadow_it_emails_scan",
                "statusCode": "clean",
                "statusDescription": "Clean",
                "verdict": "clean"
            }],
            "av": null
        },
        "entityActions": [
        {}
        ],
        "entityAvailableActions": [
        {
            "entityActionName": "quarantine",
            "entityActionParam": ""
        },
        {

            "entityActionName": "restore",
            "entityActionParam": ""
        }
        ]
    }
    ]
}
```

Search for secured entities

URI - POST

To use this endpoint, send a POST request to retrieve multiple entities with flexible query criteria: `/search/query`.

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) with request parameters posted on the request body.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID – Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6-d701748f085 1
x-av-token	String	Yes	Token	Token obtained in the authentication sequence. tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593 For more details, see *"Search for secured entities" on the previous page*.

Request String Parameters

None

Request Body

All applicable request parameters are posted on the request body JSON:

```
{
    "requestData":
    {
        "scopes": ["string"],
        "entityFilter":
        {
            "saas": "string",
            "saasEntity": "string",
            "startDate": "DateTime",
            "endDate": "DateTime"
        },
        "entityExtendedFilter": [
        {
            "saasAttrName": "string",
            "saasAttrOp": "string",
            "saasAttrValue": "string"
```

```
            }
        ],
        "scrollId": "string"
    }
}
```

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
requestData	Object			A container for the action request
scopes	Array of String			List of scopes
entityFilter	Object			A container for generic query filter (apply to all entities)
entityFilter/saas	string	Yes		Name of required SaaS. Possible values: ▪ sharefile ▪ slack ms_teams ▪ office365_emails ▪ office365_onedrive ▪ office365_ sharepoint ▪ google_mail ▪ box ▪ dropbox
entityFilter/ saasEntity	String			Name of SaaS entity. Possible values: office365_emails_email
entityFilter/ startDate	String	Yes	Date-time	Start of required time frame. Example: '2019-04-10T09:12:33.001Z'

Parameter	Type	Required	Format	Description/Sample
entityFilter/ endDate	String	Yes	Date-time	End of required time frame. Example: '2019-04-11T09:12:33.001Z'
entityExtendedFilter	Object			A container for SaaS specific extended query filter
entityExtendedFilter/ saasAttrName	String			SaaS criteria attribute name
entityExtendedFilter/ saasAttrOp	String			SaaS criteria attribute Operator: ▪ is ▪ contains ▪ startsWith ▪ isEmpty ▪ isNot ▪ notContains ▪ isNotEmpty ▪ greaterThan ▪ lessThan
entityExtendedFilter/ saasAttrValue	String			SaaS criteria attribute value

Additional Request Body Parameters for Email (specific saasAttrName used for email query)

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
entityExtendedFilter/ saasAttrName			String	Values for the address from the entity you want to match. For example, **entityPayload.subject**

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see .

```
curl -X POST -H "Accept: application/json" \
    -H "x-av-req-id: d290f1ee-6c54-4b01-90e6-d701748f0851" \
    -H "x-av-token: tkn8546ffffggd9d8934593" \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2021-04-10T09:12:33.001Z" \
    -H "x-av-sig: tkn8jmveolrrtertr9d8934593" \
    -d "
    {
        "requestData":
        {
            "entityFilter":
            {
                "saas": "office365_emails",
                "saasEntity": "office365_emails_email",
                "startDate": "2020-01-01T00:00:00.000Z",
                "endDate": ""
            },
            "entityExtendedFilter":
            [
                {
                    "saasAttrName": "entityPayload.fromEmail",
                    "saasAttrOp": "is",
                    "saasAttrValue": "developer@avanan.com"
                },
                {
                    "saasAttrName": "entityPayload.attachmentCount",
                    "saasAttrOp": "greaterThan",
                    "saasAttrValue": "0"
                }
            ],
            "scrollId": ""
        }
    }
    " \
    https://smart-api-production-1-us.avanan.net/v1.0/search/query
```

This request sample queries every email message sent from developer@avanan.com with attachments.

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure.

The response format is the same as the single entity query. However, the returned entity array may include multiple entities.

If the number of returned SaaS entities is smaller than the entire number of possible responses, a consecutive call must be sent with the returned value of **scrollId** to continue paging.

Response Structure

The response structure obtained from the service (JSON format):

```json
{
    "responseEnvelope":
    {
        "requestId": "string",
        "responseCode": 0,
        "responseText": "string",
        "additionalText": "string",
        "recordsNumber": 1,
        "totalRecordsNumber": 1,
        "scrollId": "string"
    },
    "responseData": [
    {
        "entityInfo":
        {
            "entityId": "string",
            "customerId": "string",
            "saas": "string",
            "saasEntityType": "string",
            "entityCreated": "dateTime",
            "entityUpdated": "dateTime",
            "entityActionState": "string"
        },
        "entityPayload": {},
        "entitySecurityResults":
        {
            "combinedVerdict":
            {
                "ap": "string",
                "dlp": "string",
                "clicktimeProtection": "string",
                "shadowIt": "string",
                "av": "string"
            },
            "ap":
            [{
                "entityId": "string",
                "entityType": "string",
                "payload": "object",
                "score": "string",
                "securityResultEntityId": "string",
                "securityResultEntityType": "string",
                "statusCode": "string",
                "statusDescription": "string",
                "verdict": "string"
            }],
```

```
            "dlp": "string",
            "clicktimeProtection": "string",
            "shadowIt":
                [{
                    "entityId": "string",
                    "entityType": "string",
                    "payload":
                    {
                        "subject": "string",
                        "from": "string"
                    },
                    "score": "string",
                    "securityResultEntityId": "string",
                    "securityResultEntityType": "string",
                    "statusCode": "string",
                    "statusDescription": "string",
                    "verdict": "clean"
                }],
            "av": "object"
        }
        "entityActions": [
        {
            "entityActionName": "string",
            "entityActionDate": "dateTime",
            "entityActionResponseCode": "integer",
            "entityActionResponseText": "string",
            "entityActionState": "string"
        }
        ],
        "entityAvailableActions": [
        {
            "entityActionName": "string",
            "entityActionParam": "string"
        }
        ]
    }
    ]
}
```

Response Parameters

The response parameters:

Parameter	Type	Description
responseEnvelope	Object	A container of metadata properties

Parameter		Type	Description
	requestId	String	Request ID (from the request header **x-av-req-id** value)
	responseCode	Integer	0 = Success Other values = Failure
	responseTest	String	The text value of the response
	additionalText	String	Additional information
	recordsNumber	Integer	Number of records in response
	totalRecordsNumber	Integer	Total number of records (always one here)
	scrollId	String	Unique ID used for scrolling
responseData		Array	Array of entities
responseData/entityInfo		Object	Generic SaaS entity details
	entityId	String	Unique ID of the Avanan entity
	customerId	String	Avanan customer ID
	saas	String	Avanan supported SaaS name
	saasEntityType	String	Avanan supported SaaS entity type name: message, user, file etc.
	entityCreated	DateTime	Time entity was created
	entityUpdated	DateTime	Time entity was updated
	entityActionState	String	If an action was taken on the entity, the entity SaaS state appears

Parameter	Type	Description
responseData/entityPayload	Object	This object holds SaaS specific data for the Avanan entity. (email entity data, Drive entity data etc.)
responseData/entitySecurityResults	Array	This array of objects holds security tools scan data
entityId	String	Unique ID of the relevant SaaS entity
entityType	String	Avanan supported SaaS entity type name: message, user, file, etc.
payload	Object	Complete payload of a security tool scan
score	String	Security tool result score
securityResultEntityId	String	Unique ID of the relevant security result entity
securityResultEntityType	String	Security result entity type
statusCode	String	Security tool scan status code
statusDescription	String	Security tool scan status description
entityActions	Array	List of available actions
entityActionName	String	Action Name
entityActionDate	DateTime	Action activation time
entityActionResponseCode	integer	Action response code
entityActionResponseText	String	Action response text
entityActionState	Integer	Shows the action state

Parameter	Type	Description
entityAvailableActions	Array	A list of available actions for the entity
entityActionName	String	Action name
entityActionParam	String	Additional action parameter

Additional Response Parameters for Email (responseData/entityPayload)

The **entityPayload** object specific details provided for email entity SaaS search:

ℹ️ **Note** - Some of these search details may appear in the response under the **entityPayload** response object.

Parameter	Type	Description
responseData/ entityPayload	Object	This object holds SaaS specific data for the Avanan entity (email entity data, Drive entity data etc.)
internetMessageId	String	Original Office 365 Mail/Gmail identifier
subject	String	Email subject
received	DateTime	Time email was received
size	Integer	Email size in KB
emailLinks	String	Included email links
attachmentCount	Integer	Number of email attachments
attachments	Object	An object that describes the email attachment files
mode	String	inline|monitor
recipients	String	Comma-separated list of recipients
fromEmail	String	Sender's email
fromDomain	String	Sender's domain
fromUser	Object	User object in Avanan platform

Parameter		Type	Description
	fromName	String	Sender's name
	to	String	Comma-separated list of recipients
	toUser	Object	User object in Avanan platform
	cc	Object	User object in Avanan platform
	ccUser	Object	User object in Avanan platform
	bcc	String	Bcc email addresses
	bccUser	Object	User object in Avanan platform
	replyToEmail	String	Email "reply to" address
	replyToNickname	String	Email "reply to" nickname if used
	isRead	String	true|false
	isDeleted	String	true|false
	isIncoming	String	true|false
	isInternal	String	true|false
	isOutgoing	String	true|false
	isQuarantined	String	true|false
	isRestored	String	true|false
	isRestoreRequested	String	true|false
	isRestoreDenied	String	true|false
	saasSpamVerdict	String	Spam verdict value
	SpfResult	String	SPF value combined

Response Sample

A valid response from the service:

```
{
    "responseEnvelope":
```

```
        {
            "requestId": "d290f1ee-6c54-4b01-90e6-d701748f3352",
            "responseCode": 0,
            "responseText": "Success",
            "additionalText": "",
            "recordsNumber": 1,
            "totalRecordsNumber": 1,
            "scrollId": ""
        },
        "responseData": [
        {
            "entityInfo":
            {
                "entityId": "b05f596bc33cf53b74ea75e37cf66b98",
                "customerId": "customername",
                "saas": "office365_emails",
                "saasEntityType": "office365_emails_email",
                "entityCreated": "2020-08-29T09:12:33.001Z",
                "entityUpdated": "2020-08-29T09:13:33.001Z",
                "entityActionState": "Clean"
            },
            "entityPayload":
            {
                "internetMessageId": "<562714b9-aba3-719f-5286-
0b030bbdff77@o365.com>",
                "subject": "this is a test email message",
                "received": "2020-08-29T09:12:33.001Z",
                "size": "35009",
                "emailLinks": "https://www.avanan.com",
                "attachmentCount": "",
                "attachments": "",
                "mode": "inline",
                "recipiants": "developer@avanan.com",
                "fromEmail": "manager@gmail.com",
                "fromDomain": "gmail.com",
                "fromUser": "12d14cf0-9698-4bde-9d6d-e45065dd432de",
                "fromName": "gmail manager",
                "to": "developer@avanan.com", "toUser": "
                {
                    \"mail\":\"developer@avanan.com\",
                    \"entity_id\":\"12d14cf0-9698-4bde-9d6d-
e49843598595\",
                    \"entity_type\":\ "office365_emails_user\"
                }",
                "cc": "",
                "ccUser": "",
                "bcc": "",
                "bccUser": "",
                "replyToEmail": "", "replyToNickName": "",
                "isRead": "true", "isDeleted": "flase",
```

```
            "isIncoming": "true", "isInternal": "false",
            "isOutgoing": "false", "isQuarantined": "false",
            "isRestoreRequested": "false",
            "isRestoreDenied": "false", "isRestored": "false",
            "saasSpamVerdict": "", "SpfResult": "pass"
        },
        "entitySecurityResults":
        {
            "combinedVerdict":
            {
                "ap": "phishing", "dlp": null,
                "clicktimeProtection": null, "shadowIt": "clean",
                "av": null
            },
        "ap":
        [{
            "entityId": "a60ca316d8c4f19a2923114380fb0070",
            "entityType": "office365_emails_email",
            "payload": { "reasons_by_category":
            {
                "sender_reputation":
                [{
                    "short_text": "Insignificant historical reputation
with sender",
                    "full_text": "The sending email address hasn't
established significant historical reputation with your
                    domain"
                },
                {
                    "short_text": "Low-traffic 'From'-domain",
                    "full_text": "The sender's domain has very low
traffic - often indicating low-trust domains"
                }
                ],
                "links": [{
                            "short_text": "Link to a low-traffic
site",
                            "full_text": "The email contains link to
low-traffic web-sites - often indicating low-trust domains"
                        }]
                }
            },
            "score": "526.670776",
            "securityResultEntityId":
"a60ca316d8c4f19a2923114380fb0070",
            "securityResultEntityType": "avanan_ap_scan",
            "statusCode": "0", "statusDescription": null,
"verdict": "phishing"
        }],
            "dlp": null, "clicktimeProtection": null,
```

```
            "shadowIt": [{
                "entityId": "a60ca316d8c4f19a2923114380fb0070",
  "entityType": "office365_emails_email",
                "payload": {
                    "subject": "TEST-0429-1619902351-15",
                    "from": "user@email.com"
                },
            "score": "0.0",
            "securityResultEntityId":
  "a60ca316d8c4f19a2923114380fb0070",
            "securityResultEntityType": "shadow_it_emails_scan",
  "statusCode": "clean",
            "statusDescription": "Clean", "verdict": "clean"
            }],
        "av": null
        },
        "entityActions": [
        {}
        ],
        "entityAvailableActions": [
        {
        "entityActionName": "quarantine", "entityActionParam": ""
        },
        {
        "entityActionName": "restore", "entityActionParam": ""
        }
        ]
    }
    ]
  }
```

Taking actions on secured entities

Single security event

URI - POST

To use this endpoint, send a POST request to perform a single action on a specific security event or multiple events (a single action is supported per multiple events): `/action/entity`

Request

The request includes HTTP headers (obtained from the authentication/authorization process and used to sign the request) with request parameters posted on the request body.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID - Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6-d701748f085 1
x-av-token	String	Yes	Token	Token obtained in the authentication sequence. tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593 For more details, see *"Taking actions on secured entities" on the previous page*.

Request String Parameters

None

Request Body

All applicable request parameters are posted on the request body JSON:

```
{
    "requestData":
    {
        "scope": "string",
        "entityIds": ["string"],
        "entityActionName": ["string"],
        "entityActionParam": ["string"]
    }
}
```

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
requestData	Object			A container for action request
scope	String			Single scope string
entityIds	Array of String	Yes		An array of entity ID identifiers that the single action applies to
eventActionName	String	Yes		Name of action to take
eventActionParam	String			Optional string with all action parameters

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see *"URLs and URL Base" on page 8*.

```
curl -X POST -H "Accept: application/json" \
    -H "x-av-req-id: d290f1ee-6c54-4b01-90e6-d701748f3351" \
    -H "x-av-token: tkn8546ffffggd9d8934593" \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2016-08-29T09:12:33.001Z" \
    -H "x-av-sig: tkn8jmveolrrtertr9d8934593" \
    -d "{"requestData": {"entityIds":
["6bb51619b0bb6a5a2ed3315ea1968435"],"entityActionName":
["quarantine"],"entityActionParam": [""]} }" \
    https://smart-api-production-1-us.avanan.net/v1.0/action/entity
```

This request sample quarantines the SaaS entity whose Avanan entity ID is "6bb51619b0bb6a5a2ed3315ea1968435"

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The JSON structure contains response envelope and response data which includes a detailed response code for the action per each **entityId** in the request.

Response Structure

A valid response obtained from the service (JSON format):

```
{
    "responseEnvelope":
        {
            "requestId": "string",
            "responseCode": integer,
            "responseText": "string",
            "additionalText": "string",
            "recordsNumber": integer,
            "totalRecordsNumber": integer,
            "scrollId": "string"
        },
    "responseData":
        [
            {
                "entityId": "string",
                "taskId": "integer"
            }
        ]
}
```

Response Parameters

These are the response parameters:

Parameter		Type	Description
responseEnvelope		Object	A container of metadata properties
	requestId	Integer	Request ID (from the request header **x-av-req-id** value)
	responseCode	Integer	0 = Success Other values = Failure
	responseTest	String	The text value of the response
	additionalText	String	Additional information
	recordsNumber	Integer	Number of records in the response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	An array of security event identifiers and their corresponding action response codes and additional text

Parameter		Type	Description
	entityId	String	Avanan SaaS entity ID the action applies to
	taskId	Integer	Unique ID of the Avanan task

Response Sample

A valid response from the service:

```
{
    "responseEnvelope":
        {
            "requestId": "d290f1ee-6c54-4b01-90e6-d701748f3351",
            "responseCode": 0,
            "responseText": "success",
            "additionalText": "",
            "recordsNumber": 1,
            "totalRecordsNumber": 1,
            "scrollId": "9898989898"
        },
    "responseData":
        [
            {
            "entityId": "7ded0371a3e1475c9a877e452f23a049",
            "taskId": "123445311234"
            }
        ]
}
```

Action execution status

URI - GET

To use this endpoint, send a GET request to get the state of action in the queue. `/task/{taskId}`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) with request string parameters.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID – Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6-d701748f085 1
x-av-token	String	Yes	Token	Token obtained in the authentication sequence. tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593 For more details, see *"Action execution status" on the previous page*.

Request String Parameters

Header	Type	Required	Format	Description/Sample
taskId	String	Yes		Avanan Task ID, such as: "4b8312c5b04d4a6d884662237fa2e25d"

Query String

Query	Type	Required	Format	Description/Sample
scope	String	No		Single scope string

Request Body

Not applicable for GET method.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see *"URLs and URL Base" on page 8*.

```
curl -X GET -H "Accept: application/json" \
    -H "x-av-req-id: d290f1ee-6c54-4b01-90e6-d701748f0851" \
    -H "x-av-token: tkn8546ffffggd9d8934593" \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2016-08-29T09:12:33.001Z" \
    -H "x-av-sig: tkn8jmveolrrtertr9d8934593" \
    https://smart-api-production-1-
us.avanan.net/v1.0/task/4b8312c5b04d4a6d884662237fa2e25d
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure.

Response Structure

A valid response obtained from the service (JSON format):

```
{
    "actions":
    [
        {
            "action_created": "string",
            "action_id": "string",
            "action_name": "string",
            "action_status": "string",
            "action_type": "string",
            "action_updated": "string",
            "hash_key": "string"
        }
    ],
    "created": "string",
    "customer": "string",
    "id": "numeric",
    "name": "string",
    "owner": "string",
    "progress": "numeric",
    "sequential": "boolean",
    "status": "string",
    "total": "numeric",
    "type": "string",
    "updated": "string"
}
```

Response Parameters

The response parameters:

Parameter		Type	Description
responseEnvelope		Object	A container of metadata properties
	requestId	String	Request ID (from the request header **x-av-req-id** value)
	responseCode	Integer	0 = Success Other values = Failure
	responseTest	String	The text value of the response
	additionalText	String	Additional information
	recordsNumber	Integer	Number of records in the response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	Array of event entities
	actions	Array of Object	Array of action data
	created	String	Date when the task was created
	customer	String	Customer name
	id	String	Unique ID of the task
	name	String	Name of the task
	owner	String	Owner's email
	progress	Integer	Progress indicator
	sequential	Boolean	Sequential flag
	status	String	init, inprogress, completed, failed, stopped, paused
	total	Integer	Total number
	type	String	Action type
	updated	String	Date when action was updated

Response Sample

A valid response from the service:

```json
{
    "responseEnvelope":
    {
        "requestId": "d290f1ee-6c54-4b01-90e6-d701748f3351",
        "responseCode": 0,
        "responseText": "success",
        "additionalText": "",
        "recordsNumber": 1,
        "scrollId": "9898989898"
    },
    "responseData":
        {
            "actions":
                [
                    {
                        "action_created": "2021-08-04 11:45:38.823008",
                        "action_id": "1628077538822988",
                        "action_name": "Quarantine 14cc6d3aec558cca4de1363166fa42f9",
                        "action_status": "init",
                        "action_type": "Quarantine_ 14cc6d3aec558cca4de1363166fa42f9",
                        "action_updated": "2021-08-04 11:45:38.823015",
                        "hash_key": "us##customername##1628077538799978"
                    }
                ],
            "created": "2021-08-04 11:45:38.799984",
            "customer": "customername",
            "id": 1628077538799978,
            "name": "Office365 Emails Manual Action",
            "owner": "service@avanan.com",
            "progress": 0,
            "sequential": true,
            "status": "inprogress",
            "total": 1,
            "type": "office365_emails_manual_action",
            "updated": "2021-08-04 11:45:38.800076"
        }
}
```

Managing Exceptions

Get all existing exceptions

URI - GET

To use this endpoint, send a GET request to get the exceptions list: `/exceptions/{excType}`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) with request string parameters.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID – Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6-d701748f085 1
x-av-token	String	Yes	Token	Token obtained in the authentication sequence. tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593 For more details, see *"Managing Exceptions" above*.

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
excType	String	Yes		Exception type: ■ Whitelist ■ Blacklist

Query String

Query	Type	Required	Format	Description/Sample
scope	String	No		Single scope string

Request Body

Not applicable for GET method.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see *"URLs and URL Base" on page 8*.

```
curl -X GET -H "Accept: application/json" \
    -H ""-av-req-id: d290f1ee-6c54-4b01-90e6-d701748f0851" \
    -H "x-av-token: tkn8546ffffggd9d8934593" \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2016-08-29T09:12:33.001Z" \
    -H "x-av-sig: tkn8jmveolrrtertr9d8934593" \
    https://smart-api-production-1-
us.avanan.net/v1.0/exceptions/whitelist
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure.

Response Structure

A valid response obtained from the service (JSON format):

```
[{
    "entityId": "string",
    "attachmentMd5": "string",
    "senderEmail": "string",
    "senderName": "string",
    "recipient": "string",
    "senderClientIp": "string",
    "senderDomain": "string",
    "senderIp": "string",
    "linkDomains": "string",
    "subject": "string",
    "comment": "string",
```

```
        "actionNeeded": "string",
        "matchOnlyFuture": "string",
        "quarantineAll": "string",
        "ignoringSpfCheck": "boolean",
        "subjectMatching": "string",
        "linkDomainMatching": "string",
        "senderNameMatching": "string",
        "senderDomainMatching": "string",
        "senderEmailMatching": "string",
        "recipientMatching": "string",
        "addedBy": "integer",
        "editedBy": "integer",
        "updateTime": "string"
    }]
```

Response Parameters

The response parameters:

Parameter			Type	Description
responseEnvelope			Object	A container of metadata properties
	requestId		String	Request ID (from the request header **x-av-req-id** value)
	responseCode		Integer	0 = Success Other values = Failure
	responseTest		String	The text value of the response
	additionalText		String	Additional information
	recordsNumber		Integer	Number of records in response
	totalRecordsNumber		Integer	Total number of records
	scrollId		String	Unique ID used for scrolling
responseData			Object	Array of exception entities
	entityId		String	Entity ID
	attachmentMd5		String	Attachment MD5 hash
	senderEmail		String	Sender's email
	senderName		String	Sender's name

Parameter	Type	Description
recipient	String	Recipient
senderClientIp	String	Sender client IP
senderDomain	String	Sender domain
senderIp	String	Sender IP
linkDomains	String	Link to domains
subject	String	Subject
comment	String	Exception comment
actionNeeded	String	Detection type that would be generated by the rule: ■ spam ■ phishing **Note** - This parameter applies only to Blacklist.
subjectMatching	String	Subject matching type: ■ contains ■ match
linkDomainMatching	String	Link to domains matching type: ■ contains ■ match
senderNameMatching	String	Sender name matching type: ■ contains ■ match
senderDomainMatching	String	Sender domain matching type: ■ endswith ■ match
recipientMatching	String	Recipient matching type: ■ contains ■ match

Response Sample

A valid response from the service:

```json
{
    "responseEnvelope":
    {
        "requestId": "07070caa-b73a-4125-820d-8509d83e004e",
        "responseCode": 200,
        "responseText": "",
        "additionalText": "",
        "recordsNumber": 1,
        "scrollId": ""
    },
    "responseData": [
    {
        "entityId": "121775995",
        "attachmentMd5": null,
        "senderEmail": "user@email.com",
        "senderName": null,
        "recipient": null,
        "senderClientIp": null,
        "senderDomain": null,
        "senderIp": null,
        "linkDomains": null,
        "subject": "AUT-phish-prod3-17-_200923_23_11_3",
        "comment": "",
        "actionNeeded": "",
        "matchOnlyFuture": "",
        "quarantineAll": null,
        "ignoringSpfCheck": false,
        "subjectMatching": "contains",
        "linkDomainMatching": null,
        "senderNameMatching": "",
        "senderDomainMatching": "",
        "senderEmailMatching": "",
        "recipientMatching": "",
        "addedBy": "5",
        "editedBy": null,
        "updateTime": "2020-09-25T21:54:17.706787"
    }
    ]
}
```

Get a specific exception

URI - GET

To use this endpoint, send a GET request to get exception by type and ID: `/exceptions/{excType}/{excId}`

Request

The request includes an HTTP headers (obtained in the authentication/authorization process and used to sign the request) with request string parameters.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID - Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6-d701748f085 1
x-av-token	String	Yes	Token	Token obtained in the authentication sequence. tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593 For more details, see *"Get a specific exception" above*.

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
excType	String	Yes		Exception type: ■ Whitelist ■ Blacklist
excId	String	Yes		Exception entity ID

Query String

Query	Type	Required	Format	Description/Sample
scope	String	No		Single scope string

Request Body

Not applicable for GET method.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see *"URLs and URL Base" on page 8*.

```
curl -X GET -H "Accept: application/json" \
    -H "x-av-req-id: d290f1ee-6c54-4b01-90e6-d701748f0851" \
    -H "x-av-token: tkn8546ffffggd9d8934593" \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2016-08-29T09:12:33.001Z" \
    -H "x-av-sig: tkn8jmveolrrtertr9d8934593" \
    https://smart-api-production-1-
us.avanan.net/v1.0/exceptions/whitelist/121775995
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure.

Response Structure

A valid response obtained from the service (JSON format):

```
[{
    "entityId": "string",
    "attachmentMd5": "string",
    "senderEmail": "string",
    "senderName": "string",
    "recipient": "string",
    "senderClientIp": "string",
    "senderDomain": "string",
    "senderIp": "string",
    "linkDomains": "string",
    "subject": "string",
    "comment": "string",
```

```
        "actionNeeded": "string",
        "matchOnlyFuture": "string",
        "quarantineAll": "string",
        "ignoringSpfCheck": "boolean",
        "subjectMatching": "string",
        "linkDomainMatching": "string",
        "senderNameMatching": "string",
        "senderDomainMatching": "string",
        "senderEmailMatching": "string",
        "recipientMatching": "string",
        "addedBy": "integer",
        "editedBy": "integer",
        "updateTime": "string"
    }]
```

Response Parameters

The response parameters:

Parameter		Type	Description
responseEnvelope		Object	A container of metadata properties
	requestId	String	Request ID (from the request header **x-av-req-id** value)
	responseCode	Integer	0 = Success Other values = Failure
	responseTest	String	The text value of the response
	additionalText	String	Additional information
	recordsNumber	Integer	Number of records in response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	Array of exception entities
	entityId	String	Entity ID
	attachmentMd5	String	Attachment MD5 hash
	senderEmail	String	Sender email
	senderName	String	Sender name

Parameter		Type	Description
	recipient	String	Recipient
	senderClientIp	String	Sender client IP
	senderDomain	Integer	Sender domain
	senderIp	Boolean	Sender IP
	linkDomains	String	Link to domains
	subject	String	Subject
	comment	String	Exception comment
	actionNeeded	String	Detection type that the rule would generate: ▪ spam ▪ phishing **Note** - This parameter applies only to Blacklist.
	subjectMatching	String	Subject matching type: ▪ contains ▪ match
	linkDomainMatching	String	Link to domains matching type: ▪ contains ▪ match
	senderNameMatching	String	Sender name matching type: ▪ contains ▪ match
	senderDomainMatchi ng	String	Sender domain matching type: ▪ endswith ▪ match
	recipientMatching	String	Recipient matching type: ▪ contains ▪ match

Response Sample

A valid response from the service:

```
{
    "responseEnvelope":
    {
        "requestId": "07070caa-b73a-4125-820d-8509d83e004e",
        "responseCode": 200,
        "responseText": "",
        "additionalText": "",
        "recordsNumber": 1,
        "scrollId": ""
    },
    "responseData": [
    {
        "entityId": "121775995",
        "attachmentMd5": null,
        "senderEmail": "user@email.com",
        "senderName": null,
        "recipient": null,
        "senderClientIp": null,
        "senderDomain": null,
        "senderIp": null,
        "linkDomains": null,
        "subject": "AUT-phish-prod3-17-_200923_23_11_3",
        "comment": "",
        "actionNeeded": "",
        "matchOnlyFuture": "",
        "quarantineAll": null,
        "ignoringSpfCheck": false,
        "subjectMatching": "contains",
        "linkDomainMatching": null,
        "senderNameMatching": "",
        "senderDomainMatching": "",
        "senderEmailMatching": "",
        "recipientMatching": "",
        "addedBy": "5",
        "editedBy": null,
        "updateTime": "2020-09-25T21:54:17.706787"
    }
    ]
}
```

Create an exception

URI - POST

To use this endpoint, send a POST request to create an exception with specific type (**excType**): `/exceptions/{excType}`

Request

The request includes an HTTP headers (obtained in the authentication/authorization process and used to sign the request) with request parameters posted on the request body.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID - Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6-d701748f085 1
x-av-token	String	Yes	Token	Token obtained in the authentication sequence. tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593 For more details, see *"Create an exception" above*.

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
excType	String	Yes		Exception type: ■ Whitelist ■ Blacklist

Request Body

All applicable request parameters are posted on the request body JSON:

```
{
    "requestData":
    {
        "attachmentMd5": "string",
        "senderEmail": "string",
        "senderName": "string",
        "recipient": "string",
        "senderClientIp": "string",
        "senderDomain": "string",
        "senderIp": "string",
        "linkDomains": "string"
        , "subject": "string",
        "comment": "string",
        "actionNeeded": "string",
        "matchOnlyFuture": "string",
        "quarantineAll": "string",
        "ignoringSpfCheck": "boolean",
        "subjectMatching": "string",
        "linkDomainMatching": "string",
        "senderNameMatching": "string",
        "senderDomainMatching": "string",
        "senderEmailMatching": "string",
        "recipientMatching": "string"
    }
}
```

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
requestData	Object			A container for action request
attachmentMd5	String	No		4437981ad343f816a65030504bed0e7d
senderEmail	String	No		Sender's email
senderName	String	No		Sender's name
recipient	String	No		user2@email.com
senderClientIp	String	No		192.168.1.1
senderDomain	Integer	No		email.com

Parameter	Type	Required	Format	Description/Sample
senderIp	Boolean	No		192.168.1.2
linkDomains	String	No		domain.com
subject	String	No		Block this email
comment	String	No		
actionNeeded	String	No		phishing
subjectMatching	String	No		contains
linkDomainMatching	String	No		contains
senderNameMatching	String	No		contains
senderDomainMatching	String	No		endswith
recipientMatching	String	No		match

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see *"URLs and URL Base" on page 8*.

```
curl -X POST -H "Accept: application/json" \
    -H "x-av-req-id: d290f1ee-6c54-4b01-90e6-d701748f3351" \
    -H "x-av-token: tkn8546ffffggd9d8934593" \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2016-08-29T09:12:33.001Z" \
    -H "x-av-sig: tkn8jmveolrrtertr9d8934593" \
    -d "{"requestData": {"subject": "Allow this email", "senderEmail":
"user@email.com", "senderIp": "192.168.1.1", "senderDomain":
"email.com", "senderName": "Test User", "recipient":
"user1@email.com", "subjectMatching": "contains",
"linkDomainMatching": "contains", "senderEmailMatching": "contains",
"senderDomainMatching": "contains", "comment": "created_by_smartapi",
"actionNeeded": "phishing"}}" \
    https://smart-api-production-1-
us.avanan.net/v1.0/exceptions/whitelist
```

This sample creates a new whitelist exception rule with specified parameters.

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure.

Response Structure

No response data structure

Response Parameters

The response parameters:

Parameter		Type	Description
responseEnvelope		Object	A container of metadata properties
	requestId	String	Request ID (from the request header **x-av-req-id** value)
	responseCode	Integer	0 = Success Other values = Failure
	responseTest	String	The text value of the response
	additionalText	String	Additional information
	recordsNumber	Integer	Number of records in response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling

Response Sample

A valid response from the service:

```
{
    "responseEnvelope":
    {
        "requestId": "d290f1ee-6c54-4b01-90e6",
        "responseCode": 200,
        "responseText": "",
        "additionalText": "",
        "recordsNumber": 1, "scrollId": ""
    },
    "responseData":[]
}
```

Modify an exception

URI - PUT

To use this endpoint, send a PUT request to update existing exception with specific type (excType) and ID: `/exceptions/{excType}/{excId}`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) with request parameters posted on the request body.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID - Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6-d701748f085 1
x-av-token	String	Yes	Token	Token obtained in the authentication sequence. tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593 For more details, see *"Modify an exception" above*.

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
excType	String	Yes		Exception type: ■ Whitelist ■ Blacklist
excId	String	Yes		Exception entity ID

Request Body

All applicable request parameters are posted on the request body JSON:

```
{
    "requestData":
    {
        "attachmentMd5": "string",
        "senderEmail": "string",
        "senderName": "string",
        "recipient": "string",
        "senderClientIp": "string",
        "senderDomain": "string",
        "senderIp": "string",
        "linkDomains": "string",
        "subject": "string",
        "comment": "string",
        "actionNeeded": "string",
        "matchOnlyFuture": "string",
        "quarantineAll": "string",
        "ignoringSpfCheck": "boolean",
        "subjectMatching": "string",
        "linkDomainMatching": "string",
        "senderNameMatching": "string",
        "senderDomainMatching": "string",
        "senderEmailMatching": "string",
        "recipientMatching": "string"
    }
}
```

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
requestData	Object			A container for action request
attachmentMd5	String	No		4437981ad343f816a65030504bed0e7d
senderEmail	String	No		user@email.com
senderName	String	No		Test User
recipient	String	No		user2@email.com
senderClientIp	String	No		192.168.1.1

Parameter	Type	Required	Format	Description/Sample
senderDomain	Integer	No		email.com
senderIp	Boolean	No		192.168.1.2
linkDomains	String	No		domain.com
subject	String	No		Block this email
comment	String	No		
actionNeeded	String	No		phishing
subjectMatching	String	No		contains
linkDomainMatching	String	No		contains
senderNameMatching	String	No		contains
senderDomainMatching	String	No		endswith
recipientMatching	String	No		match

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see *"URLs and URL Base" on page 8*.

```
curl -X PUT -H "Accept: application/json" \
    -H "x-av-req-id: d290f1ee-6c54-4b01-90e6-d701748f3351" \
    -H "x-av-token: tkn8546ffffggd9d8934593" \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2016-08-29T09:12:33.001Z" \
    -H "x-av-sig: tkn8jmveolrrtertr9d8934593" \
    -d "{"requestData":
        {
            "subject": "Allow this email v2l",
            "senderEmail": "user@email.com",
            "senderIp": "192.168.1.1",
            "senderDomain": "email.com",
            "senderName": "Test User",
            "recipient": "user1@email.com",
            "subjectMatching": "contains",
            "linkDomainMatching": "contains",
```

```
            "senderEmailMatching": "contains",
            "senderDomainMatching": "contains",
            "comment": "created_by_smartapi",
            "actionNeeded": "phishing"
        }
    }" \
    https://smart-api-production-1-
us.avanan.net/v1.0/exceptions/whitelist/126802091
```

This sample request updates the existing whitelist exception rule with the specified payload.

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure.

Response Structure

No response data structure

Response Parameters

The response parameters:

Parameter		Type	Description
responseEnvelope		Object	A container of metadata properties
	requestId	String	Request ID (from the request header **x-av-req-id** value)
	responseCode	Integer	0 = Success Other values = Failure
	responseTest	String	The text value of the response
	additionalText	String	Additional information
	recordsNumber	Integer	Number of records in response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling

Response Sample

A valid response from the service:

```
{
    "responseEnvelope":
    {
        "requestId": "d290f1ee-6c54-4b01-90e6",
        "responseCode": 200,
        "responseText": "",
        "additionalText": "",
        "recordsNumber": 1,
        "scrollId": ""
    },
    "responseData":[]
}
```

Delete an exception

URI - POST

To use this endpoint, send a POST request to delete an existing exception with specific type (excType) and ID: `/exceptions/{excType}/delete/{excId}`

Request

The request includes the HTTP headers (obtained in the authentication/authorization process and used to sign the request) with request parameters posted on the request body.

Request Headers

Header	Type	Required	Format	Description/Sample
x-av-req-id	String	Yes	UUID – Generated and supplied on the request.	d290f1ee-6c54-4b01-90e6-d701748f085 1
x-av-token	String	Yes	Token	Token obtained in the authentication sequence. tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Avanan Application ID	US:myapp29
x-av-date	String	Yes	Date-time in GMT	'2021-04-10T00:00:00.000Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593 For more details, see *"Delete an exception" above*.

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
excType	String	Yes		Exception type: ■ Whitelist ■ Blocklist
excId	String	Yes		Exception entity ID

Request Body

No request body

Request Body Parameters

No request body parameters

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see *"URLs and URL Base" on page 8*.

```
curl -X POST -H "Accept: application/json" \
    -H "x-av-req-id: d290f1ee-6c54-4b01-90e6-d701748f3351" \
    -H "x-av-token: tkn8546ffffggd9d8934593" \
    -H "x-av-app-id: myapp29" \
    -H "x-av-date: 2016-08-29T09:12:33.001Z" \
    -H "x-av-sig: tkn8jmveolrrtertr9d8934593" \
    https://smart-api-production-1-
us.avanan.net/v1.0/exceptions/whitelist/126802091
```

This sample deletes the existing whitelist exception rule.

Response

The response obtained from the service includes HTTP response code and JSON formatted structure.

Response Structure

No response data structure

Response Parameters

The response parameters:

Parameter			Type	Description
responseEnvelope			Object	A container of metadata properties
		requestId	String	Request ID (from the request header **x-av-req-id** value)
		responseCode	Integer	0 = Success Other values = Failure
		responseTest	String	The text value of the response
		additionalText	String	Additional information
		recordsNumber	Integer	Number of records in response
		totalRecordsNumber	Integer	Total number of records
		scrollId	String	Unique ID used for scrolling

Response Sample

A valid response from the service:

```
{
    "responseEnvelope":
    {
        "requestId": "d290f1ee-6c54-4b01-90e6",
        "responseCode": 204,
        "responseText": "",
        "additionalText": "",
        "recordsNumber": 0,
        "scrollId": ""
    },
    "responseData": []
}
```

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