



09 June 2025

AVANAN

MSP SMARTAPI

API Reference Guide



Important Information



Certifications

For third party independent certification of Check Point products, see the [Check Point Certifications page](#).



Latest Version of this Document in English

Open the latest version of this [document in a Web browser](#).
Download the latest version of this [document in PDF format](#).



Feedback

Check Point is engaged in a continuous effort to improve its documentation.
[Please help us by sending your comments](#).

Related Documents

Document Title	Description
Avanan Administration Guide	Avanan offers an administration guide for the administrators. For more details, see Avanan Administration Guide .
Avanan User Guide	Avanan offers an user guide for the end users. For more details, see Avanan User Guide .
Avanan API Reference Guide	Avanan offers a rich set of REST API to manage and act on detected security events. For more details, see Avanan API Reference Guide .
Avanan MSP Administration Guide	Avanan offers Manages Security Service Providers (MSSP) customers with access to the data required to effectively manage their direct clients. For more details, see Avanan MSP Administration Guide .

Table of Contents

Overview	5
MSP Types	6
Executing API Calls	7
URLs and URL Base	7
API Authentication and Authorization	7
Generating API Access Token	7
URI - GET	7
Request	7
Request Headers	7
Calculating x-av-sig for token generation	8
Request String Parameters	9
Request Body	9
Request Sample (CURL) Format	9
Response	9
Managing Child MSPs	10
List all associated MSP partners	10
Creating a new MSP partner	13
Response Parameters	15
Allowed Country Values	16
Allowed State Values	19
Creating a new MSP partner (old)	21
Deleting a Child MSP	25
Managing MSP Users	28
List all the users	28
Creating a new MSP user	32
Getting the details of an MSP user	37
Updating an MSP user	41

Deleting an MSP user	47
Managing MSP Customers	49
List all the customer tenants of an MSP	49
Creating a customer tenant	54
Getting the details of a customer tenant	59
Deleting a customer tenant	63
Managing the Security of a Single Customer Tenant	66
Customer Tenant API URL	66
Customer Tenant API Authentication and Authorization	66
Useful Resources	68
Managing Customer Licenses and Usage	69
List all the available licenses	69
List available license add-on	73
Assigning license to a customer tenant	76
Getting monthly usage details of customers	81
Getting daily usage details of customers	85

Overview

This document describes the API available for Managed Service Providers (MSP) and Managed Security Service Providers (MSSP) to manage their child MSP and customer accounts. These API commands follow the same authentication methods, request headers, and response structure described in the Avanan API Reference Guide. All the responses are JSON objects that contain a response envelope and response data.

MSP Types

The Avanan MSP SmartAPI recognizes three different MSP types:

- **Standalone MSP** - MSP that manages its customers and is not managed by a parent MSP.
- **Parent MSP** - MSP/MSSP that manages both direct customers and/or other MSPs (Child MSP).
- **Child MSP** - MSP that is managed by another parent MSP.

Permissions for different types of MSP:

MSP Type	Manage end-customer tenants	Manage Child MSP*	Retrieve Usage/Billing Information
Parent MSP	Yes	Yes	Yes
Child MSP	Yes	N/A	No
Standalone MSP	Yes	N/A	Yes

* Managing a child MSP includes:

- Create, edit, and delete a child MSP, its users, and permissions.
- Get the details of the related child MSP for all the customer tenants.
- Get information about the child MSP.

Executing API Calls

URLs and URL Base

You must direct all API calls that manage MSP users and customers to this URL: `smart-api-production-1-us.avanan.net`

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.

 **Note** - You must have a separate API key for every region where you manage your tenants. For example, if you manage customer tenants in the US and Europe region, you need two separate API keys.

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

Header	Type	Required	Format	Description/Sample
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 page 7](#).

```
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 1 hour after successful authentication.

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

Managing Child MSPs

List all associated MSP partners

URI - GET

To use this endpoint, send a GET request to retrieve all MSP: `/msp/msp-partners`

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```
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/msp/msp-tenants
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The structure consists of a **responseEnvelope** structure and a **responseData** object that holds an MSP array. In each MSP structure, you can find the ID and name of the MSP.

Response Structure

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

```
{
  "responseEnvelope": {
    "requestId": "string",
    "responseCode": 0,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 0,
    "scrollId": "string"
  },
  "responseData": [
    {
      "id": 0,
      "name": "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)

Parameter		Type	Description
	responseCode	Integer	0 = Success Other values = Failure
	responseText	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	A unique ID used to scroll through data
responseData		Object	Array of tenants
responseData/ MSPList	id	Integer	Unique ID of the MSP
	name	String	Name of the MSP

Response Sample

A valid response from the service:

```
{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 0,
    "responseText": "Success",
    "additionalText": "",
    "recordsNumber": 1,
    "totalRecordsNumber": 1,
    "scrollId": "34234345454353343"
  },
  "responseData": [
    {
      "Id": 15,
      "name": "ABC MSP"
    }
  ]
}
```

Creating a new MSP partner

URI - POST

To use this endpoint, send a POST request to create a new MSP Partner: `msp/msp-partners-extended`

 **Note** - It is a newer version of the existing `/msp/msp-partner` endpoint which will be deprecated by 15 June 2025. See ["Creating a new MSP partner \(old\)" on page 21](#).

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) with a request body in JSON format.

Note - The request body must include the name of the MSP.

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request Body

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

```
{
  "requestData":
```

```
{
    "name": "string",
    "website": "string",
    "country": "string",
    "state": "string",
    "zip": "string",
}
```

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
name	String	Yes		Name of the new MSP
website	String	Yes	URL	
country	String	Yes		The country the MSP is located in. Must be one of the values from the country list. See "Allowed Country Values" on page 16 .
state	String	Conditional		Required only if country is "United States". Must be one of the values from the US states list. See "Allowed State Values" on page 19 .
zip	String	Yes		

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```
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" \
  https://smart-api-production-1-us.avanan.net/v1.0/msp/msp-
  partners-extended
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The structure consists of a **responseEnvelope** structure and a **responseData** object that holds the details of the newly created MSP.

Response Structure

A valid response from the service in JSON:

```
{
  "responseEnvelope":
  {
    "requestId": "string",
    "responseCode": 0,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 0,
    "scrollId": "string"  }
  ,
  "responseData":
  {
    "id": 0,
    "name": "string",
    "website": "string",
    "country": "string",
    "state": "string",
    "zip": "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
	responseText	String	The text value of the response

Parameter		Type	Description
	additionalText	String	Additional information
	recordsNumber	Integer	Number of records in the response
	scrollId	String	A unique ID used to scroll through data
responseData		Object	Array of tenants
	id	Integer	Unique ID of the MSP
	name	String	Name of the MSP
	website	String	Website associated with the MSP
	country	String	The country the MSP is located in
	state	String	The state the MSP is located in
	zip	String	Zip of the MSP

Allowed Country Values

In the **country** field, it allows the following values.



Note - The values are case-sensitive. Ensure you use the correct capitalization.

Afghanistan	Åland Islands	Albania	Algeria	American Samoa
Andorra	Angola	Anguilla	Antarctica	Antigua and Barbuda
Argentina	Armenia	Aruba	Australia	Austria
Azerbaijan	Bahamas	Bahrain	Bangladesh	Barbados
Belarus	Belgium	Belize	Benin	Bermuda
Bhutan	Bolivia (Plurinational State of)	Bonaire, Sint Eustatius and Saba	Bosnia and Herzegovina	Botswana
Bouvet Island	Brazil	British Indian Ocean Territory	Brunei Darussalam	Bulgaria

Burkina Faso	Burundi	Cabo Verde	Cambodia	Cameroon
Canada	Cayman Islands	Central African Republic	Chad	Chile
China	Christmas Island	Cocos (Keeling) Islands	Colombia	Comoros
Congo	Congo, Democratic Republic of the	Cook Islands	Costa Rica	Croatia
Cuba	Curaçao	Cyprus	Czechia	Côte d'Ivoire
Denmark	Djibouti	Dominica	Dominican Republic	Ecuador
Egypt	El Salvador	Equatorial Guinea	Eritrea	Estonia
Eswatini	Ethiopia	Falkland Islands (Malvinas)	Faroe Islands	Fiji
Finland	France	French Guiana	French Polynesia	French Southern Territories
Gabon	Gambia	Georgia	Germany	Ghana
Gibraltar	Greece	Greenland	Grenada	Guadeloupe
Guam	Guatemala	Guernsey	Guinea	Guinea-Bissau
Guyana	Haiti	Heard Island and McDonald Islands	Holy See	Honduras
Hong Kong	Hungary	Iceland	India	Indonesia
Iran (Islamic Republic of)	Iraq	Ireland	Isle of Man	Israel
Italy	Jamaica	Japan	Jersey	Jordan
Kazakhstan	Kenya	Kiribati	Korea (Democratic People's Republic of)	Korea, Republic of

Kuwait	Kyrgyzstan	Lao People's Democratic Republic	Latvia	Lebanon
Lesotho	Liberia	Libya	Liechtenstein	Lithuania
Luxembourg	Macao	Madagascar	Malawi	Malaysia
Maldives	Mali	Malta	Marshall Islands	Martinique
Mauritania	Mauritius	Mayotte	Mexico	Micronesia (Federated States of)
Moldova, Republic of	Monaco	Mongolia	Montenegro	Montserrat
Morocco	Mozambique	Myanmar	Namibia	Nauru
Nepal	Netherlands	New Caledonia	New Zealand	Nicaragua
Niger	Nigeria	Niue	Norfolk Island	North Macedonia
Northern Mariana Islands	Norway	Oman	Pakistan	Palau
Palestine, State of	Panama	Papua New Guinea	Paraguay	Peru
Philippines	Pitcairn	Poland	Portugal	Puerto Rico
Qatar	Réunion	Romania	Russian Federation	Rwanda
Saint Barthélemy	Saint Helena, Ascension and Tristan da Cunha	Saint Kitts and Nevis	Saint Lucia	Saint Martin (French part)
Saint Pierre and Miquelon	Saint Vincent and the Grenadines	Samoa	San Marino	Sao Tome and Principe
Saudi Arabia	Senegal	Serbia	Seychelles	Sierra Leone

Singapore	Sint Maarten (Dutch part)	Slovakia	Slovenia	Solomon Islands
Somalia	South Africa	South Georgia and the South Sandwich Islands	South Sudan	Spain
Sri Lanka	Sudan	Suriname	Svalbard and Jan Mayen	Sweden
Switzerland	Syrian Arab Republic	Taiwan, Province of China	Tajikistan	Tanzania, United Republic of
Thailand	Timor-Leste	Togo	Tokelau	Tonga
Trinidad and Tobago	Tunisia	Turkey	Turkmenistan	Tuvalu
Uganda	Ukraine	United Arab Emirates	United Kingdom of Great Britain and Northern Ireland	United States
Uruguay	Uzbekistan	Vanuatu	Venezuela (Bolivarian Republic of)	Viet Nam
Western Sahara	Yemen	Zambia	Zimbabwe	

Allowed State Values

If an MSP is created in the US, the **state** field is also mandatory. The following values are allowed.



Note - The values are case-sensitive. Ensure you use the correct capitalization.

Alabama	Alaska	Arkansas	Arizona	California
Colorado	Connecticut	Delaware	Florida	Georgia
Hawaii	Idaho	Illinois	Indiana	Iowa
Kansas	Kentucky	Louisiana	Maine	Maryland
Massachusetts	Michigan	Minnesota	Mississippi	Missouri

Montana	Nebraska	Nevada	New Hampshire	New Jersey
New Mexico	New York	North Carolina	North Dakota	Ohio
Oklahoma	Oregon	Pennsylvania	Rhode Island	South Carolina
South Dakota	Tennessee	Texas	Utah	Vermont
Virginia	Washington	West Virginia	Wisconsin	Wyoming

Creating a new MSP partner (old)

URI - POST

To use this endpoint, send a POST request to create a new MSP Partner: `/msp/msp-partner`

 **Note** - This endpoint will be deprecated by 15 June 2025 and will be replaced by the `/msp/msp-partners-extended` endpoint. See ["Creating a new MSP partner" on page 13](#).

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) with a request body in JSON format.

Note - The request body must include the name of the MSP.

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request Body

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

```
{
  "requestData": {
```

```

    "name": "string"
  }
}

```

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
name	String	Yes		Name of the new MSP

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```

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" \
  https://smart-api-production-1-us.avanan.net/v1.0/msp/msp-partners

```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The structure consists of a **responseEnvelope** structure and a **responseData** object that holds the details of the newly created MSP.

Response Structure

A valid response from the service in JSON:

```

{
  "responseEnvelope": {
    "requestId": "string",
    "responseCode": 0,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 0,
    "scrollId": "string"
  }
}

```

```

    },
    "responseData": {
      "id": 0,
      "name": "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
	responseText	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	A unique ID used to scroll through data
responseData		Object	Array of tenants
	id	Integer	Unique ID of the MSP
	name	String	Name of the MSP

Response Sample

A valid response from the service:

```

{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 0,
  }
}

```

```
    "responseText": "Success",
    "additionalText": "",
    "recordsNumber": 1,
    "totalRecordsNumber": 1,
    "scrollId": ""
  },
  "responseData": {
    "Id": 16,
    "name": "Acme MSP"
  }
}
```

Deleting a Child MSP

URI - DELETE

To use this endpoint, send a DELETE request to delete an MSP: `/msp/msp-partners/{msp_id}`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) and the `msp_id` as a path parameter.

Note - All the tenants associated with the given MSP gets deleted.

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
msp_id	Integer	Yes		MSP ID to delete.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```
curl -X DELETE -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/msp/msp-
partners/{msp_id}
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The structure consists of a **responseEnvelope** structure and does not return a **responseData** object.

Note - A successful response has the status code 204.

Response Structure

A valid response from the service in JSON:

```
{
  "responseEnvelope": {
    "requestId": "string",
    "responseCode": 0,
    "responseText": "string",
    "additionalText": "string",
    "recordsNumber": 1,
    "totalRecordsNumber": 1,
    "scrollId": "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)

Parameter		Type	Description
	responseCode	Integer	0 = Success Other values = Failure
	responseText	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	A unique ID used to scroll through data

Response Sample

A valid response from the service:

```
{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 0,
    "responseText": "Success",
    "additionalText": "",
    "recordsNumber": 1,
    "totalRecordsNumber": 1,
    "scrollId": "34234345454353343"
  },
}
```

Managing MSP Users

List all the users

URI - GET

To use this endpoint, send a GET request to retrieve all users: `/msp/users`

Request

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

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
scrollId	String	No		ID used to scroll through large sets of results.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#)

```
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/msp/users
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The structure consists of a **responseEnvelope** structure and a **responseData** object that holds an array of users. Each user object must have the userID, email, name, and permissions for the user.

Response Structure

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

```
{
  "responseEnvelope": {
    "requestId": "string",
    "responseCode": 0,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 0,
    "scrollId": "string"
  },
  "responseData": [
    {
      "id": 0,
      "email": "string",
      "firstName": "string",
      "lastName": "string",
      "role": "string",
      "samlLogin": true,
      "directLogin": true,
      "viewPrivateData": true,
      "sendAlerts": true,
      "receiveWeeklyReports": true
    }
  ]
}
```

}

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
	responseText	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	A unique ID used to scroll through data
responseData		Object	Array of users
responseData/ UserList	id	Integer	Unique ID of the user
	email	String	User email
	firstName	String	User first name
	lastName	String	User last name
	role	String	Role of the user, one of admin, operations, user, and read-only
	samlLogin	Boolean	SAML login enabled for the user

Parameter		Type	Description
	directLogin	Boolean	Password login enabled for the user
	viewPrivateData	Boolean	Allow the user to view private data on the customer portal
	sendAlerts	Boolean	Send alerts from customer tenants to this admin
	receiveWeeklyReports	Boolean	Send weekly reports from customer tenants to this admin

Response Sample

A valid response from the service:

```
{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 200,
    "responseText": "Success",
    "additionalText": "",
    "recordsNumber": 1,
    "totalRecordsNumber": 1,
    "scrollId": ""
  },
  "responseData": {
    [
      {
        "id": 1,
        "email": "johndoe@abccompany.com",
        "firstName": "John",
        "lastName": "Doe",
        "role": "admin",
        "samlLogin": true,
        "directLogin": true,
        "viewPrivateData": true,
        "sendAlerts": true,
        "receiveWeeklyReports": true
      }
    ]
  }
}
```

Creating a new MSP user

URI - POST

To use this endpoint, send a POST request with JSON body: `/msp/users`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) and a JSON body with the user information.

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request Body

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

```
{
  "requestData": {
    "firstName": "string",
    "lastName": "string",
    "email": "string",
    "role": "string",
    "directLogin": true,
    "samlLogin": true,
    "viewPrivateData": true,
  }
}
```

```

    "receiveWeeklyReports": true,
    "sendAlerts": true,
  }
}

```

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
firstName	String	Yes		User first name
lastName	String	Yes		User last name
email	String	Yes		User email address
role	String	Yes		User role, one of admin, operations, user, and read-only
directLogin	Boolean	Yes		Allow user to log in the MSP portal with a password
samlLogin	Boolean	Yes		Allow user to log in the MSP portal with SAML
viewPrivateData	Boolean	Yes		Allow user to view private data on the customer portals
receiveWeeklyReports	Boolean	Yes		Send the weekly reports to the user from the customer portals
sendAlerts	Boolean	Yes		Send alerts to the user from the customer portals

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```
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 "{
    \"requestData\": {
      \"firstName\": \"John\",
      \"lastName\": \"Doe\",
      \"email\": \"johndoe@abccompany.com\",
      \"role\": \"admin\",
      \"directLogin\": \"true\",
      \"samlLogin\": \"true\",
      \"viewPrivateData\": \"true\",
      \"receiveWeeklyReports\": \"true\",
      \"sendAlerts\": \"true\",
    }
  }" \
  https://smart-api-production-1-us.avanan.net/v1.0/msp/users
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The structure consists of a **responseEnvelope** structure and a **responseData** structure that shows the newly created user information.

Response Structure

```
{
  \"responseEnvelope\": {
    \"requestId\": \"string\",
    \"responseCode\": 0,
    \"responseText\": \"\",
    \"additionalText\": \"\",
    \"recordsNumber\": 0,
    \"scrollId\": \"string\"
  },
  \"responseData\": {
    \"id\": 0,
    \"email\": \"string\",
    \"firstName\": \"string\",
    \"lastName\": \"string\",
    \"role\": \"string\",
    \"samlLogin\": true,
    \"directLogin\": true,
  }
}
```

```

    "viewPrivateData": true,
    "sendAlerts": true,
    "receiveWeeklyReports": true
  }
}

```

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
	responseText	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	A unique ID used to scroll through data
responseData		Object	User Object
	id	Integer	Unique ID of the user
	email	String	User email
	firstName	String	User first name
	lastName	String	User last name
	role	String	Role of the user. One of admin, operations, user, and read-only.
	samlLogin	Boolean	SAML login enabled for the user

Parameter		Type	Description
	directLogin	Boolean	Password login enabled for the user
	viewPrivateData	Boolean	Allow the user to view private data on the customer portal
	sendAlerts	Boolean	Send alerts from customer tenants to this admin
	receiveWeeklyReports	Boolean	Send weekly reports from customer tenants to this admin

Response Sample

A valid response from the service:

```
{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 200,
    "responseText": "Success",
    "additionalText": "",
    "recordsNumber": 1,
    "totalRecordsNumber": 1,
    "scrollId": ""
  },
  "responseData": {
    {
      "id": 1,
      "email": "johndoe@abccompany.com",
      "firstName": "John",
      "lastName": "Doe",
      "role": "admin",
      "samlLogin": true,
      "directLogin": true,
      "privateData": true,
      "sendAlerts": true,
      "receiveWeeklyReports": true
    }
  }
}
```

Getting the details of an MSP user

URI - GET

To use this endpoint, send a GET request with a path parameter **user_id**: `/msp/users/{user_id}`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) and a path parameter (**user_id**) that represents the user you want to describe.

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
user_id	String	Yes		Unique user ID

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```
curl -X GET -H "Accept: application/json" \
-H "x-av-req-id: d290f1ee-6c54-4b01-90e6-d701748f0851" \
-H "x-av-token: tkn8546fffffggd9d8934593" \
-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/msp/users/12
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The structure consists of a **responseEnvelope** structure and a **responseData** structure that shows information related to the requested user.

Response Structure

```
{
  "responseEnvelope": {
    "requestId": "string",
    "responseCode": 0,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 0,
    "scrollId": "string"
  },
  "responseData": {
    "id": 0,
    "email": "string",
    "firstName": "string",
    "lastName": "string",
    "role": "string",
    "samlLogin": true,
    "directLogin": true,
    "viewPrivateData": true,
    "sendAlerts": true,
    "receiveWeeklyReports": true
  }
}
```

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
	responseText	String	Text value of response
	additionalText	String	Additional information
	recordsNumber	Integer	Number of records in the response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	A unique ID used to scroll through data
responseData		Object	User Object
	id	Integer	Unique ID of the user
	email	String	User email
	firstName	String	User first name
	lastName	String	User last name
	role	String	Role of the user. One of admin, operations, user, and read-only
	samlLogin	Boolean	SAML login enabled for the user
	directLogin	Boolean	Password login enabled for the user
	viewPrivateData	Boolean	Allow the user to view private data on the customer portal
	sendAlerts	Boolean	Send alerts from customer tenants to this admin
	receiveWeeklyReports	Boolean	Send weekly reports from customer tenants to this admin

Response Sample

A valid response from the service:

```
{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 200,
    "responseText": "Success",
    "additionalText": "",
    "recordsNumber": 1,
    "totalRecordsNumber": 1,
    "scrollId": ""
  },
  "responseData": {
    {
      "id": 1,
      "email": "johndoe@abccompany.com",
      "firstName": "John",
      "lastName": "Doe",
      "role": "admin",
      "samlLogin": true,
      "directLogin": true,
      "privateData": true,
      "sendAlerts": true,
      "receiveWeeklyReports": true
    }
  }
}
```

Updating an MSP user

URI - PUT

To use this endpoint, send a PUT request with a path parameter (**user_id**) and a JSON body:
`/msp/users/{user_id}`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) and a path parameter (**user_id**).

Note - The request must include a JSON body object (**requestData**) with the updated user details.

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
user_id	String	Yes		Unique user ID

Request Body

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

```

{
  "requestData": {
    "firstName": "string",
    "lastName": "string",
    "email": "string",
    "role": "string",
    "directLogin": true,
    "samlLogin": true,
    "viewPrivateData": true,
    "receiveWeeklyReports": true,
    "sendAlerts": true,
  }
}

```

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
firstName	String	Yes		User first name
lastName	String	Yes		User last name
email	String	Yes		User email address
role	String	Yes		User role. One of admin, operations, user, and read-only.
directLogin	Boolean	Yes		Allow user to log in the MSP portal with a password
samlLogin	Boolean	Yes		Allow user to log in the MSP portal with SAML
viewPrivateData	Boolean	Yes		Allow user to view private data on the customer portals
receiveWeeklyReports	Boolean	Yes		Send the weekly reports to the user from the customer portals

Parameter	Type	Required	Format	Description/Sample
sendAlerts	Boolean	Yes		Send the user alerts from the customer portals

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```
curl -X POST -H "Accept: application/json" \
  -H "x-av-req-id: d290f1ee-6c54-4b01-90e6-d701748f0851" \
  -H "x-av-token: tkn8546fffffggd9d8934593" \
  -H "x-av-app-id: myapp29" \
  -H "x-av-date: 2016-08-29T09:12:33.001Z" \
  -H "x-av-sig: tkn8jmveolrrtertr9d8934593" \
  -d "{
    \"requestData\": {
      \"firstName\": \"John\",
      \"lastName\": \"Doe\",
      \"email\": \"johndoe@abccompany.com\",
      \"role\": \"admin\",
      \"directLogin\": \"true\",
      \"samlLogin\": \"true\",
      \"viewPrivateData\": \"true\",
      \"receiveWeeklyReports\": \"true\",
      \"sendAlerts\": \"true\",
    }
  }" \
  https://smart-api-production-1-us.avanan.net/v1.0/msp/users/1
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The structure consists of a **responseEnvelope** structure and a **responseData** structure that shows information related to the user, and the updates made.

Response Structure

```
{
  \"responseEnvelope\": {
    \"requestId\": \"string\",
    \"responseCode\": 0,
    \"responseText\": \"\",
  },
}
```

```

    "additionalText": "",
    "recordsNumber": 0,
    "scrollId": "string"
  },
  "responseData": {
    "id": 0,
    "email": "string",
    "firstName": "string",
    "lastName": "string",
    "role": "string",
    "samlLogin": true,
    "directLogin": true,
    "viewPrivateData": true,
    "sendAlerts": true,
    "receiveWeeklyReports": true
  }
}

```

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
	responseText	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	A unique ID used to scroll through data
responseData		Object	User Object
	id	Integer	Unique ID of the user
	email	String	User email

Parameter		Type	Description
	firstName	String	User first name
	lastName	String	User last name
	role	String	Role of the user. One of admin, operations, user, and read-only.
	samlLogin	Boolean	SAML login enabled for the user
	directLogin	Boolean	Password login enabled for the user
	viewPrivateData	Boolean	Allow the user to view private data on the customer portal
	sendAlerts	Boolean	Send alerts from customer tenants to this admin
	receiveWeeklyReports	Boolean	Send weekly reports from customer tenants to this admin

Response Sample

A valid response from the service:

```
{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 200,
    "responseText": "Success",
    "additionalText": "",
    "recordsNumber": 1,
    "totalRecordsNumber": 1,
    "scrollId": ""
  },
  "responseData": {
    {
      "id": 1,
      "email": "johndoe@abccompany.com",
      "firstName": "John",
      "lastName": "Doe",
      "role": "admin",
      "samlLogin": true,
      "directLogin": true,
      "privateData": true,
      "sendAlerts": true,

```

```
    "receiveWeeklyReports": true  
  }  
}
```

Deleting an MSP user

URI - DELETE

To use this endpoint, send a DELETE request with a path parameter (**user_id**): `/msp/users/{user_id}`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) and a path parameter (**user_id**).

Note - The **user_id** must be the user ID of the user to be deleted.

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
user_id	String	Yes		Unique user ID

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```
curl -X DELETE -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/msp/users/1
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The structure consists of a **responseEnvelope** structure. There is no **responseData** object. The successful deletion returns the status code 204.

Response Structure

```
{
  "responseEnvelope": {
    "requestId": "string",
    "responseCode": 0,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 0,
    "scrollId": "string"
  }
}
```

Response Sample

A valid response from the service:

```
{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 204,
    "responseText": "Success",
    "additionalText": "",
    "recordsNumber": 0,
    "totalRecordsNumber": 0,
    "scrollId": ""
  }
}
```

Managing MSP Customers

List all the customer tenants of an MSP

URI - GET

To use this endpoint, send a GET request to retrieve all tenants associated with a given MSP:
`/msp/tenants`

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request Body

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

```
{
  "requestData":
  {
    "scrollId": "string"
  }
}
```

```
}
}
```

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
scrollId	String	No		ID used to scroll large sets of results.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```
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/msp/tenants
```

Response

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

You can find tenant details within each tenant. This includes the domain, deployment mode, user counts, and billing package.

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": [
    {
      "id": 0,
      "domain": "string",
      "deploymentMode": "string",
      "pocDateStart": "string",
      "pocDateExpiration": "string",
      "users": 0,
      "status": {
        "statusCode": "string",
        "description": "string"
      }
      "package": {
        "id": 0,
        "codeName": "string",
        "displayName": "string"
      },
      "addons": [
        {
          "id": 0,
          "name": "string"
        }
      ],
      "maxLicensedUsers": 0
    }
  ]
}

```

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

Parameter		Type	Description
	responseText	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	A unique ID used to scroll through data
responseData		Object	Array of tenants
responseData/ TenantList	id	Integer	Unique ID of the tenant
	domain	String	Avanan customer portal domain
	deploymentMode	String	Tenant mode paid or PoC
	pocDateStart	String	Start of PoC for a tenant
	pocDateExpiration	String	End of PoC for a tenant
	users	Integer	Total user count for a tenant
	status	Object	Object with tenant status
	package	Object	Billing package object
	addons	Object	Array of Add-ons
	maxLicensedUsers	Integer	Maximum number of users for the portal

Response Sample

A valid response from the service:

```
{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 0,
    "responseText": "Success",
  }
}
```

```

    "additionalText": "",
    "recordsNumber": 1,
    "totalRecordsNumber": 1,
    "scrollId": "34234345454353343"
  },
  "responseData": {
    [
      {
        'id': 3318,
        'domain': 'abctenant.avanan.net',
        'deploymentMode': 'paid',
        'pocDateStart': '2021-10-25',
        'pocDateExpiration': '2021-11-09',
        'users': 25,
        'status': {'statusCode': 'success', 'description':
'Active'}},
        'package': None,
        'addons': [],
        'maxLicensedUsers': None
      }
    ]
  }
}

```

Creating a customer tenant

URI - POST

To use this endpoint, send a POST request with JSON body to create a new tenant:
`/msp/tenants`

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request Body

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

```
{
  "requestData": {
    "adminEmail": "string",
    "tenantName": "string",
    "adminName": "string",
    "phone": "string",
    "companyName": "string",
    "tenantRegion": "us",
```

```
}
}
```

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
adminEmail	String	Yes		Tenant administrator email
tenantName	String	Yes		
adminName	String	Yes		Tenant administrator's first and last name
phone	String	Yes	Ten digit phone number	Tenant administrator phone number
companyName	String	Yes		Name of company associated with the tenant
tenantRegion	String	Yes	Country code in lower case	Country code for tenant creation region ▪ US (USA) ▪ EU (Europe) ▪ CA (Canada)

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 7](#).

```
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 "{
    \"requestData\": {
      \"adminEmail\": \"johndoe@abccompany.com\",
      \"tenantName\": \"abccompany\",
      \"adminName\": \"John Doe\",
```

```

        "Phone": "9023234576",
        "companyName": "abccompany",
        "tenantRegion": "us"
    }
} " \
https://smart-api-production-1-us.avanan.net/v1.0/msp/tenants

```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The **responseData** object contains the details of the newly created tenant.

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": {
    {
      "id": 0,
      "domain": "string",
      "deploymentMode": "string",
      "pocDateStart": "string",
      "pocDateExpiration": "string",
      "users": 0,
      "status": {
        "statusCode": "string",
        "description": "string"
      }
    }
    "package": {
      "id": 0,
      "codeName": "string",
      "displayName": "string"
    },
    "addons": [
      {
        "id": 0,
        "name": "string"
      }
    ]
  }
}

```

```

    },
    "maxLicensedUsers": 0
  }
}

```

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
	responseText	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	A unique ID used to scroll through data
responseData		Object	Array of tenants
	id	Integer	Unique ID of the tenant
	domain	String	Avanan customer portal domain
	deploymentMode	String	Tenant mode paid or PoC
	pocDateStart	String	Start of PoC for the tenant
	pocDateExpiration	String	End of PoC for the tenant
	users	Integer	Total user count for tenant
	status	Object	Object with tenant status
	package	Object	Billing package object

Parameter		Type	Description
	addons	Object	Array of add-ons
	maxLicensedUsers	Integer	Maximum number of users for the portal

Response Sample

A valid response from the service:

```
{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 0,
    "responseText": "Success",
    "additionalText": "",
    "recordsNumber": 1,
    "totalRecordsNumber": 1,
    "scrollId": ""
  },
  "responseData": {
    {
      'id': 3318,
      'domain': 'abctenant.avanan.net',
      'deploymentMode': 'paid',
      'pocDateStart': '2021-10-25',
      'pocDateExpiration': '2021-11-09',
      'users': 25,
      'status': {'statusCode': 'success', 'description': 'Active'},
      'package': None,
      'addons': [],
      'maxLicensedUsers': None}
    }
  }
}
```

Getting the details of a customer tenant

URI - GET

To use this endpoint, send a GET request with a path parameter to see the details of a given tenant: `/msp/tenants/{tenant_id}`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) and the ID of the tenant to detail as a path parameter.

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
tenant_id	Integer	Yes		Avanan tenant ID retrieved from the tenant endpoint

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```
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/msp/tenants/120
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The structure consists of a **responseEnvelope** structure and a **responseData** object that holds the details of the tenant. The tenant details include the license, PoC/paid start dates, user count, and expiration dates.

Response Structure

```
{
  "responseEnvelope": {
    "requestId": "string",
    "responseCode": 0,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 0,
    "scrollId": "string"
  },
  "responseData": {
    "id": 0,
    "domain": "string",
    "deploymentMode": "string",
    "pocDateStart": "string",
    "pocDateExpiration": "string",
    "users": 0,
    "status": {
      "statusCode": "string",
      "description": "string"
    },
    "package": {
      "id": 0,
      "codeName": "string",
      "displayName": "string"
    },
    "addons": [
      {
        "id": 0,
        "name": "string"
      }
    ]
  }
}
```

```

    },
    ],
    "maxLicensedUsers": 0
  }
}

```

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
	responseText	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	A unique ID used to scroll through data
responseData		Object	Array of tenants
responseData	id	Integer	Unique ID of the tenant
	domain	String	Avanan customer portal domain
	deploymentMode	String	Tenant mode paid or PoC
	pocDateStart	String	Start of PoC for the tenant
	pocDateExpiration	String	End of PoC for the tenant
	users	Integer	Total user count for tenant

Parameter		Type	Description
	status	Object	Object with tenant status
	package	Object	Billing package object
	addons	Object	Array of add-ons
	maxLicensedUsers	Integer	Maximum number of users for the portal

Response Sample

A valid response from the service:

```
{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 0,
    "responseText": "Success",
    "additionalText": "",
    "recordsNumber": 1,
    "totalRecordsNumber": 1,
    "scrollId": ""
  },
  "responseData": {
    {
      'id': 3318,
      'domain': 'abctenant.avanan.net',
      'deploymentMode': 'paid',
      'pocDateStart': '2021-10-25',
      'pocDateExpiration': '2021-11-09',
      'users': 25,
      'status': {'statusCode': 'success', 'description': 'Active'},
      'package': None,
      'addons': [],
      'maxLicensedUsers': None
    }
  }
}
```

Deleting a customer tenant

URI - DELETE

To use this endpoint, send a DELETE request with a path parameter to delete the tenant and all its data: `/msp/tenants/{tenant_id}`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) and the tenant ID as a path parameter.

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
tenant_id	Integer	Yes		Avanan tenant ID to specify the tenant to delete.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```
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: myapp2" \
-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/msp/tenants/120
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The structure consists of a **responseEnvelope** structure with no **responseData** structure. After you delete the tenant, the request returns the status code 204.

Response Structure

```
{
  "responseEnvelope": {
    "requestId": "string",
    "responseCode": 0,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 0,
    "scrollId": "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
	responseText	String	The text value of the response
	additionalText	String	Additional information

Parameter		Type	Description
	recordsNumber	Integer	Number of records in the response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	A unique ID used to scroll through data

Response Sample

A valid response from the service:

```
{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 204,
    "responseText": "Success",
    "additionalText": "",
    "recordsNumber": 0,
    "totalRecordsNumber": 0,
    "scrollId": ""
  },
}
```

Managing the Security of a Single Customer Tenant

In order to filter through security events/entities, define exceptions and take security-related actions on a single customer tenant, refer to the [Avanan SmartAPI Reference Guide](#) for standard (base) tenants.

Note - You do not need to generate a secret key for every customer. Instead, use the MSP API key you received from the [Avanan Support](#). See *"MSP Types" on page 6*.

Customer Tenant API URL

For the standard (base) tenants, to filter security events, entities, define exceptions and take security related actions on a single customer tenant, refer to the [Avanan SmartAPI Reference Guide](#).

For every customer tenant, use the URL assigned to its region:

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

Note - For the customer tenants in the UAE region, management of the security using APIs is not supported.

Customer Tenant API Authentication and Authorization

To execute API calls of specific customer tenants, you must use the MSP API key received from the [Avanan Support](#). See *"API Authentication and Authorization" on page 7*.

 **Note** - You must have a separate API key for every region where you manage your tenants. For example, if you need to get the security events for tenants residing in the US and Europe region, you need two separate API keys. However, to create, delete, and license tenants, one MSP API key is enough.

Useful Resources

- Parent MSP
 - [Parent MSP API \(JSON\)](#)
 - [Parent MSP Swagger \(JSON\)](#)
 - [SmartAPI Client \(PY\)](#)
- Child MSPs
 - [Child MSP API \(JSON\)](#)
 - [SmartAPI Client \(PY\)](#)

Managing Customer Licenses and Usage

List all the available licenses

URI - GET

To use this endpoint, send a GET request to list all the licenses: `/msp/licenses`

Request

The request must only include HTTP headers (obtained in the authentication/authorization process and used to sign the request).

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```
curl -X GET -H "Accept: application/json" \
```

```
-H "x-av-req-id: d290f1ee-6c54-4b01-90e6-jjshduhuh" \
-H "x-av-token: tkn8546fffffggd9d8934593" \
-H "x-av-app-id: myapp29" \
-H "x-av-date: 2021-02-28T09:12:33.001Z" \
-H "x-av-sig: tkn8jmveolrrrtertr9d8934593" \
https://smart-api-production-1-us.avanan.net/v1.0/msp/licenses
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The structure consists of a **responseEnvelope** structure and a **responseData** object with an array of license objects. The license objects include the ID, code name, and display name of all the available tenant licenses.

Response Structure

```
{
  "responseEnvelope": {
    "requestId": "string",
    "responseCode": 0,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 0,
    "scrollId": "string"
  },
  "responseData": [
    {
      "id": 0,
      "codeName": "string",
      "displayName": "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)

Parameter	Type	Description
responseCode	Integer	0 = Success Other values = Failure
responseText	String	The text value of response
additionalText	String	Additional information
recordsNumber	Integer	Number of records in the response
totalRecordsNumber	Integer	Total number of records
scrollId	String	A unique ID used to scroll through data
responseData	Object	An array of License Objects
id	Integer	ID of license choice
codeName	String	Code name for the license
displayName	String	Display name of the license

Response Sample

A valid response from the service:

```
{
  'responseEnvelope': {
    'requestId': 'e5f28cbe-17cd-41e3-8c5d-10818f1ef2f4',
    'responseCode': 200,
    'responseText': '',
    'additionalText': '',
    'recordsNumber': 3,
    'scrollId': ''
  },
  'responseData': [
    {
      'id': 1,
      'codeName': 'advanced_anti_phishing',
      'displayName': 'Advanced Anti-Phishing'
    },
    {
      'id': 2,
      'codeName': 'complete_malware',
      'displayName': 'Complete Malware'
    },
    {

```

```
    'id': 3,  
    'codeName': 'full_suite_protection',  
    'displayName': 'Full-Suite Protection'  
  }  
]  
}
```

List available license add-on

URI - GET

To use this endpoint, send a GET request to list add-on: `/msp/licenses`

Request

The request must only include HTTP headers (obtained in the authentication/authorization process and used to sign the request).

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```
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/msp/addons
```

Response

The response obtained from the service includes an HTTP response code and JSON formatted structure. The structure consists of a **responseEnvelope** structure and a **responseData** object with an array of add-on objects. The add-on objects include the ID and name of all the available tenant add-ons.

Response Structure

```
{
  "responseEnvelope": {
    "requestId": "string",
    "responseCode": 0,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 0,
    "scrollId": "string"
  },
  "responseData": [
    {
      "id": 0,
      "name": "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
	responseText	String	The text value of the response
	additionalText	String	Additional information
	recordsNumber	Integer	Number of records in the response

Parameter		Type	Description
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	A unique ID used to scroll through data
responseData		Object	An array of License Objects
	id	Integer	ID of license choice
	name	String	Name of the add-on

Response Sample

A valid response from the service:

```
{
  'responseEnvelope': {
    'requestId': 'da1b074e-8f54-495b-b626-182c883e3817',
    'responseCode': 200,
    'responseText': '',
    'additionalText': '',
    'recordsNumber': 1,
    'scrollId': ''
  },
  'responseData': [
    {
      'id': 1,
      'name': 'IRaaS'
    }
  ]
}
```

Assigning license to a customer tenant

URI - POST

To use this endpoint, send a POST request with a path parameter that specifies the tenant to apply for a license and a request body with the license data: `/msp/tenants/{tenant_id}/license`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request) and the ID of the tenant to apply the new license to as a path parameter. The request body must include the required license code name and any optional license specifications.

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
tenant_id	Integer	Yes		Avanan tenant ID to specify the tenant to delete.

Request Body

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

```
{
  "requestData": {
    "tenantId": "string",
    "maxLicensedUsers": 0,
    "licenseCodeName": "string",
    "addonIdList": [0]
  }
}
```

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
licenseCodeName	String	Yes		Code name of the desired license, taken from licenses endpoint response.
addonIdList	List of Integers	No		An array of desired add-on IDs. Add-on IDs are available from the add-ons endpoint.
maxLicensedUsers	Integer	No		Maximum number of users for the tenant.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```
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 "{
    \"requestData\": {
      \"licenseCodeName\": \"complete_malware\",
      \"maxLicensedUsers\": \"20\"
    }
  }" \
```

```
https://smart-api-production-1-  
us.avanan.net/v1.0/msp/tenants/120/license
```

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** structure that shows the **tenantId** and details of the new license.

Response Structure

```
{  
  "responseEnvelope": {  
    "requestId": "string",  
    "responseCode": 0,  
    "responseText": "",  
    "additionalText": "",  
    "recordsNumber": 0,  
    "scrollId": "string"  
  },  
  "responseData": {  
    "license": {  
      "id": 0,  
      "codeName": "string",  
      "displayName": "string"  
    },  
    "tenantId": 0,  
    "tenantDomain": "string",  
    "addons": [  
      {  
        "id": 0,  
        "name": "string"  
      }  
    ],  
    "maxLicensedUsers": 0  
  }  
}
```

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
	responseText	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	A unique ID used to scroll through data
responseData		Object	Portal license details
	license	Object	License object that contains the ID, code name, and display name
	tenantId	Integer	ID of the Avanan tenant
	tenantDomain	String	The top level domain of the Avanan tenant
	maxLicensedUsers	Integer	Maximum number users seats for the tenant
	addons	Array of Add-on objects	An array of add-on objects with the add-on ID and name

Response Sample

A valid response from the service:

```
{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 200,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 1,
    "scrollId": "string"
  }
}
```

```
},
"responseData": {
  "license": {
    "id": 2,
    "codeName": "complete_malware",
    "displayName": "Complete Malware"
  },
  "tenantId": 120,
  "tenantDomain": "abccompany",
  "addons": [],
  "maxLicensedUsers": 20
}
}
```

Getting monthly usage details of customers

URI - GET

To use this endpoint, send a GET request: `/msp/usage`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request). This request must include two query string parameters, the month and the year. The service returns the usage for the given month.

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
year	Integer	Yes	querystring	Year of usage
month	Integer	Yes	querystring	Month to retrieve usage

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
scrollId	String	No		ID used to scroll large sets of results.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#)

```
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: myapp2" \
  -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/msp/usage?year=2021&month=9
```

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 with an array of usage for all associated customers in the given month.

Response Structure

```
{
  "responseEnvelope": {
    "requestId": "string",
    "responseCode": 0,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 0,
    "scrollId": "string"
  },
  "responseData": [
    {
      "day": "string",
      "tenantDomain": "string",
      "licenseCodeName": "string",
      "users": 0,
      "dailyPrice": 0,
      "cost": 0
    }
  ]
}
```

```

    ]
  }

```

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
	responseText	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	A unique ID used to scroll through data
responseData		Object	Usage List - Array of usage
responseData/UsageList	day	String	Day of usage in DateTime format
	tenantDomain	String	TLD of the Avanan tenant
	licenseCodeName	String	Code name of the license for the tenant on the day of usage

Parameter		Type	Description
	users	Integer	User count for the usage day
	dailyPrice	Float	Price for the day per user
	cost	Float	Cost for all users of the tenant per day

Response Sample

A valid response from the service:

```
{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 204,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 1,
    "scrollId": ""
  },
  "responseData": [
    {
      'day': '2021-09-02',
      'tenantDomain': "abccompany",
      'licenseCodeName': 'full_suite_protection',
      'users': 45,
      'dailyPrice': 0.069,
      'cost': 3.11
    }
  ]
}
```

Getting daily usage details of customers

URI - GET

To use this endpoint, send a GET request: `/msp/usage/day`

Request

The request includes HTTP headers (obtained in the authentication/authorization process and used to sign the request). This request must include three **querystring** parameters (year, month, and day). These parameters correspond to the day to return usage.

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-d701748f0851
x-av-token	String	Yes	Token obtained in the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Yes	Application ID provided by Avanan	myapp29
x-av-date	String	Yes	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Yes	Calculated signature	tkn8jmveolrrtertr9d8934593

Request String Parameters

Parameter	Type	Required	Format	Description/Sample
year	Integer	Yes	querystring	Year for usage
month	Integer	Yes	querystring	Month to retrieve usage
day	Integer	Yes	querystring	Day to retrieve usage

Request Body Parameters

The JSON parameters:

Parameter	Type	Required	Format	Description/Sample
scrollId	String	No		ID used to scroll through large sets of results.

Request sample (CURL) format

This request sample shows URI base in USA region. For URI base in other regions, see ["MSP Types" on page 6](#).

```
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/msp/usage?year=2021&month=9&day=2
```

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 with an array of usage for all associated customers in the given day.

Response Structure

```
{
  "responseEnvelope": {
    "requestId": "string",
    "responseCode": 0,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 0,
    "scrollId": "string"
  },
  "responseData": [
    {
      "day": "string",
      "tenantDomain": "string",
      "licenseCodeName": "string",
      "users": 0,
      "dailyPrice": 0,
      "cost": 0
    }
  ]
}
```

```
    ]
  }
```

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
	responseText	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	A unique ID used to scroll through data
responseData		Object	Usage List - Array of usage
responseData/UsageList	day	String	Day of usage in DateTime format
	tenantDomain	String	TLD of the Avanan tenant
	licenseCodeName	String	Code name of the license for the tenant on the day of usage

Parameter		Type	Description
	users	Integer	User count for the usage day
	dailyPrice	Float	Price for the day per user
	cost	Float	Cost for all users of the tenant per day

Response Sample

A valid response from the service:

```
{
  "responseEnvelope": {
    "requestId": "cc7796ac-6235-4a06-b7e9-6abc557976f6",
    "responseCode": 204,
    "responseText": "",
    "additionalText": "",
    "recordsNumber": 1,
    "scrollId": ""
  },
  "responseData": [
    {
      'day': '2021-09-02',
      'tenantDomain': "abccompany",
      'licenseCodeName': 'full_suite_protection',
      'users': 45,
      'dailyPrice': 0.069,
      'cost': 3.11
    }
  ]
}
```

Check Point Copyright Notice

© 2022 Check Point Software Technologies Ltd.

All rights reserved. This product and related documentation are protected by copyright and distributed under licensing restricting their use, copying, distribution, and decompilation. No part of this product or related documentation may be reproduced in any form or by any means without prior written authorization of Check Point. While every precaution has been taken in the preparation of this book, Check Point assumes no responsibility for errors or omissions. This publication and features described herein are subject to change without notice.

RESTRICTED RIGHTS LEGEND:

Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 and FAR 52.227-19.

TRADEMARKS:

Refer to the [Copyright page](#) for a list of our trademarks.

Refer to the [Third Party copyright notices](#) for a list of relevant copyrights and third-party licenses.