MSP SmartAPI Documentation

Document V1.0 Beta
(2021/10)

Please see Smart API base documentation for API Overview and authentication concepts. This document will cover MSP API endpoints. These endpoints will follow the same restrictions and authentication methods described in the base API documentation. The same request headers will be required and the API will follow the response structure of the base API. All requests will be answered with a json object containing both a response envelope and response data.

1. /msp/msp-partners - List all associated MSP Partners

- **URI - GET**

  To use this endpoint send a GET request to retrieve all MSPs:

  ```
  /msp/msp-partners
  ```

- **Request**

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

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained on the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	Calculated signature	tkn8jmveolrrtertr9d8934593

- **Request sample (CURL) format**

  ```
  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://smartapi-prod-us-1.avanan.net/v1.0/msp/msp-partners
```

- **Response**

  The response obtained from the service includes HTTP response code and JSON formatted structure. The structure includes a **responseEnvelope** structure which is common to all API calls, and a **responseData** object that holds an array of MSPs. Within each MSP structure you will find the ID and Name of the MSP

- **Response Structure**

  The following is 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 following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information

	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	Array of tenants
responseData/ **MSPList**	id	Integer	Unique ID of the MSP
	name	String	Name of the MSP

- **Response Sample**

The following is 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"
     }
   ]
}
```

2. /msp/msp-partners - Create a new MSP Partner

- **URI - POST**

To use this endpoint send a POST request to create a new MSP Partner:

```
/msp/msp-partner
```

- **Request**

The request includes HTTP headers (obtained on the authentication/authorization process and used to sign the request) alongside with a request body in json format. The request body should include the name of the MSP

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained on the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	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 are as follows:

Parameter	TYPE	Required	Format	Description/Sample
name	String	Y		Name of the new MSP

- **Request sample (CURL) format**

```
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://smartapi-prod-us-1.avanan.net/v1.0/msp/msp-partners
```

- **Response**

  The response obtained from the service includes HTTP response code and JSON formatted structure. The structure includes a **responseEnvelope** structure which is common to all API calls, and a **responseData** object that holds the details of the newly created MSP

- **Response Structure**

  The following is 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 following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information
	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	Array of tenants

responseData	id	Integer	Unique ID of the MSP
	name	String	Name of the MSP

- **Response Sample**

The following is 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"
}
```

3. /msp/msp-partners/{msp_id}

- **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 on the authentication/authorization process and used to sign the request) in addition to the msp_id as a path parameter. All tenants associated with the given MSP will be deleted.

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained on the authentication sequence	tkn8546ffffggd9d8934593

x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	Calculated signature	tkn8jmveolrrtertr9d8934593

● **Request String Parameters**

Parameter	TYPE	Required	Format	Description/Sample
msp_id	Integer	Y		ID of the msp to delete

● **Request sample (CURL) format**

```
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://smartapi-prod-us-1.avanan.net/v1.0/msp/msp-partners/{msp_id}
```

● **Response**

The response obtained from the service includes HTTP response code and JSON formatted structure. The structure includes a **responseEnvelope** structure which is common to all API calls, and will not return a **responseData** object. A successful response will have status code 204

● **Response Structure**

The following is a valid response obtained from the service (JSON format):

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

- **Response Parameters**

  The following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information
	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling

- **Response Sample**

  The following is a valid response from the service:

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

-

4. /msp/tenants - List all associated tenants

- **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 on the authentication/authorization process and used to sign the request) alongside with request string parameters.

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained on the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	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 are as follows:

Parameter	TYPE	Required	Format	Description/Sample
scrollId	String	N		ID used for scrolling large sets of results
MSPId	Integer	N		Provide an MSP ID to filter for only tenants associated with the given MSP ID

- **Request sample (CURL) format**

```
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://smartapi-prod-us-1.avanan.net/v1.0/msp/tenants
```

- **Response**

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

  structure. The structure includes a **responseEnvelope** structure which is common to all API

  calls, and a **responseData** object that holds an array of tenants.

  within each tenant one can find tenant details including the domain, deployment mode, user

  counts and billing package

- **Response Structure**

  The following is 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"
     },
     "MSP": {
     "id": 0,
     "name": "string"
     },
     "package": {
     "id": 0,
     "codeName": "string",
     "displayName": "string"
     },
```

```
     "addons": [
     {
     "id": 0,
     "name": "string"
     }
     ],
     "maxLicensedUsers": 0
     }
 ]
}
```

- **Response Parameters**

The following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information
	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
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 Tenant
	pocDateExpiration	String	End of Poc for Tenant
	users	Integer	Total User count for tenant

	status	Object	Object with tenant status
	package	Object	Billing package object
	addons	Object	Array of Addons
	maxLicensedUsers	Integer	Max Number of Users for portal
	MSP	Object	Object with the portals MSP ID and Name

- **Response Sample**

The following is 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'},
 'MSP': {'id': 15, 'name': 'ABC MSP'
 'package': None,
 'addons': [],
 'maxLicensedUsers': None}
   ]
}
```

5. /msp/tenants - Create a 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 on the authentication/authorization process and used to sign the request) alongside with request parameters posted on the request body.

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained within the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	Calculated signature	tkn8jmveolrrtertr9d8934593

- **Request Body**

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

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

- **Request Body Parameters**

  The JSON parameters are as follows:

Parameter	TYPE	Required	Format	Description/Sample

MSPId	Integer	Y		ID of the MSP to associate the new tenant with
adminEmail	String	Y		Tenant administrator email
tenantName	String	Y		
adminName	String	Y		Tenant administrator first and last name
phone	String	Y	Ten digit phone number	Tenant administrator phone number
companyName	String	Y		Name of company associated with Tenant
tenantRegion	String	Y	Country code lower case	Country Code for tenant creation region 1. US 2. EU 3. CA

- **Request sample (CURL) format**

```
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": {
            "MSPId": 15
            "adminEmail": "johndoe@abccompany.com",
            "tenantName": "abccompany",
            "adminName": "John Doe"
            "Phone": "9023234576"
            "companyName": "abccompany"
            "tenantRegion": "us"
        }
    }" \
    https://smartapi-prod-us-1.avanan.net/v1.0/msp/tenants
```

- **Response**

  The response obtained from the service includes HTTP response code and JSON formatted structure. The responseData object will contain the details of the newly created Tenant

- **Response Structure**

  The following is a valid response obtained from the service (JSON format):

```
{
  "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"
    },
    "MSP": {
    "id": 0,
    "name": "string"
    },
    "package": {
    "id": 0,
    "codeName": "string",
    "displayName": "string"
    },
    "addons": [
    {
    "id": 0,
    "name": "string"
    }
    ],
    "maxLicensedUsers": 0
}
}
```

● **Response Parameters**

The following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information

	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
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 Tenant
	pocDateExpiration	String	End of Poc for Tenant
	users	Integer	Total User count for tenant
	status	Object	Object with tenant status
	MSP	Object	Object with the portals MSP ID and Name
	package	Object	Billing package object
	addons	Object	Array of Addons
	maxLicensedUsers	Integer	Max Number of Users for portal

- **Response Sample**

The following is 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'},
'MSP': {'Id': '15, 'name': 'ABC MSP'},
'package': None,
'addons': [],
'maxLicensedUsers': None}
}

6. /msp/tenants/{tenant_id} - Tenant Details

- **URI - GET**

  To use this endpoint send a GET request with path parameter to view the details of a given tenant:

  /msp/tenants/{tenant_id}

- **Request**

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

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained within the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	Calculated signature	tkn8jmveolrrtertr9d8934593

- **Request String Parameters**

Parameter	TYPE	Required	Format	Description/Sample

tenant_id	Integer	Y		Avanan tenant ID retrieved from list tenants endpoint

- **Request sample (CURL) format**

```
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://smartapi-prod-us-1.avanan.net/v1.0/msp/tenants/120
```

- **Response**

  The response obtained from the service includes HTTP response code and JSON formatted structure. The structure includes a **responseEnvelope** structure which is common to all API calls, 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"
     },
     "MSP": {
     "id": 0,
     "name": "string"
     },
     "package": {
     "id": 0,
     "codeName": "string",
     "displayName": "string"
```

```
     },
     "addons": [
     {
     "id": 0,
     "name": "string"
     }
     ],
     "maxLicensedUsers": 0
 }
}
```

● **Response Parameters**

The following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information
	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
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 Tenant
	pocDateExpiration	String	End of Poc for Tenant
	users	Integer	Total User count for tenant
	status	Object	Object with tenant status

	MSP	Object	Object with the portals MSP ID and Name
	package	Object	Billing package object
	addons	Object	Array of Addons
	maxLicensedUsers	Integer	Max Number of Users for portal

- **Response Sample**

The following is 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'},
 'MSP': {'Id': '15, 'name': 'ABC MSP'},
 'package': None,
 'addons': [],
 'maxLicensedUsers': None}
}
```

7. /msp/tenants/{tenant_id} - Delete Tenant

- **URI - DELETE**
  To use this endpoint send a DELETE request with path parameter to delete the tenant and all

  of its data

  /msp/tenants/{tenant_id}

- **Request**

  The request includes HTTP headers (obtained on the authentication/authorization process

  and used to sign the request) in addition to the tenant ID as a path parameter

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained within the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	Calculated signature	tkn8jmveolrrtertr9d8934593

- **Request String Parameters**

Parameter	TYPE	Required	Format	Description/Sample
tenant_id	Integer	Y		Avanan tenant ID to specify tenant to delete

- **Request sample (CURL) format**

```
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://smartapi-prod-us-1.avanan.net/v1.0/msp/tenants/120
```

- **Response**

  The response obtained from the service includes HTTP response code and JSON formatted structure. The structure includes a **responseEnvelope** structure which is common to all API calls, there will be no responseData structure for this endpoint. The endpoint will return status code 204 for a successful deletion

- **Response Structure**

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

- **Response Parameters**

The following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information
	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling

- **Response Sample**

The following is a valid response from the service:

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

8. /msp/tenants/{tenant_id}/license - License Tenant

- **URI - POST**

  To use this endpoint send a POST request with path parameter specifying the tenant to apply a license and a request body with license data

  /msp/tenants/{tenant_id}/license

- **Request**

  The request includes HTTP headers (obtained on 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 should include the required license code name and any optional license specifications

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained within the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	Calculated signature	tkn8jmveolrrtertr9d8934593

- **Request String Parameters**

Parameter	TYPE	Required	Format	Description/Sample
tenant_id	Integer	Y		Avanan tenant ID to specify 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 are as follows:

Parameter	TYPE	Required	Format	Description/Sample
licenseCodeName	String	Y		Code Name of desired license, taken from licenses endpoint response
addonIdList	List of Integers	N		Array of desired addon IDs, addon IDs are available from addons endpoint
maxLicensedUsers	Integer	N		Max Number of seats for the tenant

● **Request sample (CURL) format**

```
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://smartapi-prod-us-1.avanan.net/v1.0/msp/tenants/120/license
```

● **Response**

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

structure. The structure includes a **responseEnvelope** structure which is common to all API

calls and a **responseData** structure showing the tenantID and license 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 following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information
	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling

responseData			Object	PortalLicenseDetails
	license		Object	License Object containing id, code name and display name
	tenantId		Integer	ID of Avanan Tenant
	tenantDomain		String	Top Level Domain of Avanan tenant
	maxLicensedUsers		Integer	Max number of seats for the tenant
	addons		Array of Addon Objects	Array of addon objects with addon id and name

- **Response Sample**

The following is 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
 }
}
}
```

9. /msp/licenses - List Available Licenses

- **URI - GET**

To use this endpoint send a GET request to list licenses

```
/msp/licenses
```

- **Request**

  The request should only include HTTP headers (obtained on the authentication/authorization process and used to sign the request)

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained within the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	Calculated signature	tkn8jmveolrrtertr9d8934593

- **Request sample (CURL) format**

```
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://smartapi-prod-us-1.avanan.net/v1.0/msp/licenses
```

- **Response**

  The response obtained from the service includes HTTP response code and JSON formatted structure. The structure includes a **responseEnvelope** structure which is common to all API calls and a **responseData** object with an Array of license Objects. The license objects will include the ID, code name and display name of all 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 following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information
	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	An array of License Objects
	id	Integer	ID of license choice
	codeName	String	Code name for license

	displayName	String	Display name of license

- **Response Sample**

  The following is 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'}]}
```

10./msp/addons - List Available Addons

- **URI - GET**

  To use this endpoint send a GET request to list addons

  /msp/licenses

- **Request**

  The request should only include HTTP headers (obtained on the

  authentication/authorization process and used to sign the request)

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained within the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29

x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	Calculated signature	tkn8jmveolrrtertr9d8934593

- **Request sample (CURL) format**

```
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://smartapi-prod-us-1.avanan.net/v1.0/msp/addons
```

- **Response**

  The response obtained from the service includes HTTP response code and JSON formatted structure. The structure includes a **responseEnvelope** structure which is common to all API calls and a **responseData** object with an Array of addon Objects. The addon objects will include the ID and name of all available tenant addons

- **Response Structure**

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

- **Response Parameters**

  The following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information
	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	An array of License Objects
	id	Integer	ID of license choice
	name	String	Name of addon

- **Response Sample**

  The following is 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'}]}
```

11. /msp/users - List Users

- **URI - GET**

  To use this endpoint send a GET request to retrieve all users:

  ```
  /msp/users
  ```

- **Request**

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

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample

x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained on the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	Calculated signature	tkn8jmveolrrtertr9d8934593

● **Request Body Parameters**

The JSON parameters are as follows:

Parameter	TYPE	Required	Format	Description/Sample
scrollId	String	N		ID used for scrolling large sets of results
MSPId	Integer	N		ID of the MSP to filter by

● **Request sample (CURL) format**

```
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://smartapi-prod-us-1.avanan.net/v1.0/msp/users
```

● **Response**

The response obtained from the service includes HTTP response code and JSON formatted structure. The structure includes a **responseEnvelope** structure which is common to all API calls, and a **responseData** object that holds an array of users. Each user object should have the userID, email, name and permissions for the user.

- **Response Structure**

  The following is 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",
     "MSPName": "string",
     "MSPId": 0,
     "role": "string",
     "samlLogin": true,
     "directLogin": true,
     "viewPrivateData": true,
     "sendAlerts": true,
     "receiveWeeklyReports": true
     }
 ]
}
```

- **Response Parameters**

  The following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information
	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records

	scrollId	String	Unique ID used for scrolling
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
	MSPName	String	Name of MSP user belongs to
	MSPId	Integer	ID of MSP user belongs to
	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 tenant to this admin
	receiveWeeklyReports	Boolean	Send weekly reports from customer tenant to this admin

- **Response Sample**

The following is 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",
        "MSPName": "ABC MSP",
        "MSPId": 15,
        "role": "admin",
        "samlLogin": true,
        "directLogin": true,
        "privateData": true,
        "sendAlerts": true,
        "receiveWeeklyReports": true
        }
    ]
}
```

12./msp/users - Create User

- **URI - POST**

  To use this endpoint send a POST request with json body

  ```
  /msp/users
  ```

- **Request**

  The request includes HTTP headers (obtained on the authentication/authorization process

  and used to sign the request) and a json body of requestData with the user information.

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained within the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	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,
     "MSPId": 15
 }
}
```

● **Request Body Parameters**

The JSON parameters are as follows:

Parameter	TYPE	Required	Format	Description/Sample
firstName	String	Y		User first name
lastName	String	Y		User last name
email	String	Y		User email address
MSPId	Integer	Y		ID of MSP to associate the user with
role	String	Y		User role, one of admin, operations, user and read only
directLogin	Boolean	Y		Allow user to login to MSP portal with password
samlLogin	Boolean	Y		Allow user to login to MSP portal with SAML
viewPrivateData	Boolean	Y		Allow user to view private data on the customer portals
receiveWeeklyReports	Boolean	Y		Send the user weekly reports from the customer portals
sendAlerts	Boolwn	Y		Send the user alerts from the customer portals

● **Request sample (CURL) format**

```
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",
                "MSPId": 15
                "role": "admin",
                "directLogin": "true",
                "samlLogin": "true",
                "viewPrivateData": "true",
                "receiveWeeklyReports": "true",
                "sendAlerts": "true",
            }
        }" \
        https://smartapi-prod-us-1.avanan.net/v1.0/msp/users
```

- **Response**

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

  structure. The structure includes a **responseEnvelope** structure which is common to all API

  calls and a **responseData** structure showing information related to the newly created user

- **Response Structure**

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

```
}
```

- **Response Parameters**

  The following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information
	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	User Object
responseData	id	Integer	Unique ID of the user
	email	String	User email
	firstName	String	User first name
	lastName	String	User last name
	MSPName	String	Name of MSP user belongs to
	MSPId	Integer	ID of MSP user belongs to
	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 tenant to this admin
	receiveWeeklyReports	Boolean	Send weekly reports from customer tenant to this admin

- **Response Sample**

  The following is 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",
     "MSPName": "ABC MSP"
     "MSPId": 15
     "role": "admin",
     "samlLogin": true,
     "directLogin": true,
     "privateData": true,
     "sendAlerts": true,
     "receiveWeeklyReports": true
     }
}
```

13. /msp/users/{user_id} - User Details

- **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 on the authentication/authorization process and used to sign the request) and a path parameter user_id representing the user you want to describe

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained within the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	Calculated signature	tkn8jmveolrrtertr9d8934593

- **Request String Parameters**

Parameter	TYPE	Required	Format	Description/Sample
user_id	String	Y		Unique User ID

- **Request sample (CURL) format**

```
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://smartapi-prod-us-1.avanan.net/v1.0/msp/users/12
```

- **Response**

The response obtained from the service includes HTTP response code and JSON formatted structure. The structure includes a **responseEnvelope** structure which is common to all API calls and a **responseData** structure showing information related to requested user

- **Response Structure**

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

- **Response Parameters**

The following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information
	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	User Object

responseData	id	Integer	Unique ID of the user
	email	String	User email
	firstName	String	User first name
	lastName	String	User last name
	MSPName	String	Name of MSP user belongs to
	MSPId	Integer	ID of MSP user belongs to
	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 tenant to this admin
	receiveWeeklyReports	Boolean	Send weekly reports from customer tenant to this admin

- **Response Sample**

The following is 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",
     "MSPName": "ABC MSP"
     "MSPId": 15
```

```
        "role": "admin",
        "samlLogin": true,
        "directLogin": true,
        "viewPrivateData": true,
        "sendAlerts": true,
        "receiveWeeklyReports": true
        }
}
```

14. /msp/users/{user_id} - Update User

- **URI - PUT**

  To use this endpoint send a PUT request with a path parameter of user_id and a json body

  /msp/users/{user_id}

- **Request**

  The request includes HTTP headers (obtained on the authentication/authorization process

  and used to sign the request) and a path parameter of user_id. The request should include a

  json body object requestData with the updated user details

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained within the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	Calculated signature	tkn8jmveolrrtertr9d8934593

- **Request String Parameters**

Parameter	TYPE	Required	Format	Description/Sample

user_id	String	Y		Unique User ID

● **Request Body**

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

```json
{
 "requestData": {
      "firstName": "string",
      "lastName": "string",
      "email": "string",
      "role": "string",
      "directLogin": true,
      "samlLogin": true,
      "viewPrivateData": true,
      "receiveWeeklyReports": true,
      "sendAlerts": true,
      "MSPId": 0
 }
}
```

● **Request Body Parameters**

The JSON parameters are as follows:

Parameter	TYPE	Required	Format	Description/Sample
firstName	String	Y		User first name
lastName	String	Y		User last name
email	String	Y		User email address
MSPId	Integer	Y		ID of the MSP to associate the user with
role	String	Y		User role, one of admin, operations, user and read only
directLogin	Boolean	Y		Allow user to login to MSP portal with password
samlLogin	Boolean	Y		Allow user to login to MSP portal with SAML
viewPrivateData	Boolean	Y		Allow user to view private data on the customer portals

receiveWeeklyRepor ts	Boolean	Y		Send the user weekly reports from the customer portals
sendAlerts	Boolwn	Y		Send the user alerts from the customer portals

- **Request sample (CURL) format**

```
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",
            "MSPId": 15
            "role":  "admin",
            "directLogin":  "true",
             "samlLogin": "true",
             "viewPrivateData": "true",
             "receiveWeeklyReports": "true",
             "sendAlerts": "true",
        }
    }" \
    https://smartapi-prod-us-1.avanan.net/v1.0/msp/users/1
```

- **Response**

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

   structure. The structure includes a **responseEnvelope** structure which is common to all API

   calls and a **responseData** structure showing information related to the user which will reflect

   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",
    "MSPName": "string",
    "MSPId": 0,
    "role": "string",
    "samlLogin": true,
    "directLogin": true,
    "viewPrivateData": true,
    "sendAlerts": true,
    "receiveWeeklyReports": true
 }
}
```

- **Response Parameters**

The following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information
	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	User Object
responseData	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 tenant to this admin
	receiveWeeklyReports	Boolean	Send weekly reports from customer tenant to this admin

- **Response Sample**

The following is 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",
     "MSPName": "ABC MSP"
     "MSPId": 15
     "role": "admin",
     "samlLogin": true,
     "directLogin": true,
     "privateData": true,
     "sendAlerts": true,
     "receiveWeeklyReports": true
     }
}
```

15. /msp/users/{user_id} - Delete User

- **URI - DELETE**
  To use this endpoint send a DELETE request with a path parameter of user_id

  ```
  /msp/users/{user_id}
  ```

- **Request**

  The request includes HTTP headers (obtained on the authentication/authorization process and used to sign the request) and a path parameter of user_id. This should be the userID of the user to be deleted

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained within the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	Calculated signature	tkn8jmveolrrtertr9d8934593

- **Request String Parameters**

Parameter	TYPE	Required	Format	Description/Sample
user_id	String	Y		Unique User ID

- **Request sample (CURL) format**

```
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://smartapi-prod-us-1.avanan.net/v1.0/msp/users/1
```

- **Response**

The response obtained from the service includes HTTP response code and JSON formatted structure. The structure includes a **responseEnvelope** structure which is common to all API calls, there will not be a **responseData** object. A successful deletion will return status code 204

● **Response Structure**

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

● **Response Sample**

The following is a valid response from the service:

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

16./msp/usage - List Usages for Month

● **URI - GET**
To use this endpoint send a GET request

```
/msp/usage
```

● **Request**

The request includes HTTP headers (obtained on the authentication/authorization process and used to sign the request). This request should include two query string parameters, month and year. The service will return the usages for the given month

● **Request Headers**

Header	TYPE	Required	Format	Description/Sample

x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained within the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	Calculated signature	tkn8jmveolrrtertr9d8934593

- **Request String Parameters**

Parameter	TYPE	Required	Format	Description/Sample
year	Integer	Y	querystring	Year for usages
month	Integer	Y	querystring	Month to retrieve usages
msp_ids	Array of Integer	N	querystring	Optional filter of MSP IDs, retrieve usages only for tenants associated with these MSPs

- **Request Body Parameters**

  The JSON parameters are as follows:

Parameter	TYPE	Required	Format	Description/Sample
scrollId	String	N		ID used for scrolling large sets of results

- **Request sample (CURL) format**

```
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://smartapi-prod-us-1.avanan.net/v1.0/msp/usage?year=2021&month=9
```

- **Response**

  The response obtained from the service includes HTTP response code and JSON formatted structure. The structure includes a **responseEnvelope** structure which is common to all API calls and a **responseData** object with an array usages for all associated customers for 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
     "MSPName": "string"
     }
 ]
}
```

- **Response Parameters**

  The following are 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 is success, other value failure
	responseText	String	Text value of response

	additionalText	String	Extra information
	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	Usage List - Array of Usages
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
	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
	MSPName	String	Name of MSP tenant belongs to

- **Response Sample**

The following is 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,
         'MSPName': 'ABC MSP'
     }
```

```
    ]
}
```

17. /msp/usages/day - List Usages for day

- **URI - GET**

  To use this endpoint send a GET request

  ```
  /msp/usage/day
  ```

- **Request**

  The request includes HTTP headers (obtained on the authentication/authorization process and used to sign the request). This request should include three querystring parameters, year, month and day. These parameters correspond to the day to return usages from.

- **Request Headers**

Header	TYPE	Required	Format	Description/Sample
x-av-req-id	String	Y	UUID – generated and supplied on the request	d290f1ee-6c54-4b01-90e6-d701748f0851
x-av-token	String	Y	Token obtained within the authentication sequence	tkn8546ffffggd9d8934593
x-av-app-id	String	Y	Application ID provided by AVANAN	myapp29
x-av-date	String	Y	Date-time in GMT	'2016-08-29T09:12:33.001Z'
x-av-sig	String	Y	Calculated signature	tkn8jmveolrrtertr9d8934593

- **Request String Parameters**

Parameter	TYPE	Required	Format	Description/Sample
year	Integer	Y	querystring	Year for usages
month	Integer	Y	querystring	Month to retrieve usages

day	Integer	Y	querystring	Day to retrieve usages
msp_ids	Array of Integer	N	querystring	Optional filter of MSP IDs, retrieve usages only for tenants associated with these MSPs

● **Request Body Parameters**

The JSON parameters are as follows:

Parameter	TYPE	Required	Format	Description/Sample
scrollId	String	N		ID used for scrolling large sets of results

● **Request sample (CURL) format**

```
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://smartapi-prod-us-1.avanan.net/v1.0/msp/usage?year=2021&month=9&day=2
```

● **Response**

The response obtained from the service includes HTTP response code and JSON formatted structure. The structure includes a **responseEnvelope** structure which is common to all API calls and a **responseData** object with an array usages for all associated customers for 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,
    "MSPName": "string"
    }
 ]
}
```

- **Response Parameters**

  The following are 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 is success, other value failure
	responseText	String	Text value of response
	additionalText	String	Extra information
	recordsNumber	Integer	Number of record is response
	totalRecordsNumber	Integer	Total number of records
	scrollId	String	Unique ID used for scrolling
responseData		Object	Usage List - Array of Usages
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
	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
	MSPName	String	Name of MSP tenant belongs to

- **Response Sample**

  The following is 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,
         'MSPName': 'ABC MSP'
     }
 ]
}
```