UvExplorerServer Rest API V1

Table of Contents

Introduction

The UvExplorer web api provides HTTP access to view and in some cases insert, update and delete data in your UvExplorerServer instance. The available web API endpoints are described below, along with curl request and response examples for each endpoint.

The curl request examples use unix style line continuation syntax. To use a command on windows, replace the \ line continuation characters with ^. Replace any placeholder values (between opening and closing angle brackets) before executing the commands. Placeholder values include **<host>**, **<port>**, **<apiKey>**, **<sessionGuid>** and others.

You must create an API key from the web console of your UvExplorerServer instance before you can access the web API. Select 'Manage API Keys' from the 'Account' menu to create an API key.

To use the web API, you must first use your API key to create a session using the /session [Post] API endpoint. This returns a session GUID which must be passed as an authorization header to any other API endpoints. At the end of an API session, you should delete the session using the /session [Delete] endpoint. Undeleted sessions will eventually timeout.

Most endpoints require a network to be loaded (with /network/load [Post]) before they can be accessed. Use /network/list [Get] to obtain a list of networks, agents, discoveries, and discovery runs that can be loaded.

Several of the endpoints require a json body to be included in the request. Json request bodies are described in the Requests section. Json response bodies are described in the Responses section.

Session

/public/api/v1/session [Post]

Description: Opens (creates) a session and returns a session GUID
Request Headers: Authorization: Bearer <apiKey>
Responses:
      200 OK
          sessionGuid: text/plain
      401 Unauthorized

Curl Request Example

```
curl --request POST --data "" \
    --header "Authorization: Bearer <apiKey>" \
    http://<host>:<port>/public/api/v1/session
```

Curl Response Example

```
d31a13f5-03a9-4734-9cd0-14ecb70a6495
```

/public/api/v1/session [Delete]

Description: Closes (deletes) a session
Request Headers: Authorization: Bearer <sessionGuid>
Responses:
        200 OK
        404 Not Found

Curl Request Example

```
curl --request DELETE \
    --header "Authorization: Bearer <sessionGuid>" \
    http://<host>:<port>/public/api/v1/session
```

Curl Response Example

```
None
```

Network

/public/api/v1/network/list [Get]

Description: Gets a summary of the entire network tree available to the user. Can be used to
see which networks, agents, discoveries, and discovery runs are available to load.
Request Headers: Authorization: Bearer <sessionGuid>
Responses:
        200 OK
                NetworkSummariesResponse: application/json
        401 Unauthorized
        404 Not Found

Curl Request Example

```
curl --request GET \
    --header "Authorization: Bearer <sessionGuid>" \
```

```
http://<host>:<port>/public/api/v1/network/list
```

Curl Response Example

See NetworkSummariesResponse

/public/api/v1/network/protocols/list?networkGuid=<guid> [Get]

Description: Gets a summary of all protocols that are part of this network.
Request Headers: Authorization: Bearer <sessionGuid>
Responses:
    200 OK
        ProtocolSummariesResponse: application/json
    401 Unauthorized
    404 Not Found

Curl Request Example

```
curl --request GET \
    --header "Authorization: Bearer <sessionGuid>" \

http://<host>:<port>/public/api/v1/network/protocols/list?networkGuid=
<guid>
```

Curl Response Example

See ProtocolSummariesResponse

/public/api/v1/network?guid=<guid> [Get]

Description: Gets a summary of the network.
Request Headers: Authorization: Bearer <sessionGuid>
Responses:
    200 OK
        NetworkSummaryResponse: application/json
    401 Unauthorized
    404 Not Found

Curl Request Example

```
curl --request GET \
    --header "Authorization: Bearer <sessionGuid>" \
    http://<host>:<port>/public/api/v1/network?guid=<guid>
```

Curl Response Example

See NetworkSummaryResponse

/public/api/v1/network [Post]

Description: Adds a network
Request Headers: Authorization: Bearer <sessionGuid>
Request Body: AddNetworkRequest: application/json
Responses:
　　　　200 OK
　　　　400 Bad Request
　　　　401 Unauthorized
　　　　404 Not Found

Curl Request Example

```
curl --request POST \
    --header "Authorization: Bearer <sessionGuid>" \
    --header "Content-Type: application/json" \
    --data "{\"guid\":\"<networkGuid>\", \"name\":\"NetworkName\"}" \
    http://<host>:<port>/public/api/v1/network
```

Curl Response Example

```
None
```


/public/api/v1/network [Put]

Description: Updates an existing Network
Request Headers: Authorization: Bearer <sessionGuid>
Request Body: AddNetworkRequest: application/json
Responses:
　　　　200 OK
　　　　400 Bad Request
　　　　401 Unauthorized
　　　　404 Not Found

Curl Request Example

```
curl --request PUT \
    --header "Authorization: Bearer <sessionGuid>" \
    --header "Content-Type: application/json" \
    --data "{\"guid\":\"<networkGuid>\", \"name\":\"NetworkName\"}" \
```

```
http://<host>:<port>/public/api/v1/network
```

Curl Response Example

```
None
```

/public/api/v1/network?guid=<guid> [Delete]

Description: Deletes a network
Request Headers: Authorization: Bearer <sessionGuid>
Responses:
     200 OK
     401 Unauthorized
     404 Not Found

Curl Request Example

```
curl --request DELETE \
    --header "Authorization: Bearer <sessionGuid>" \
    http://<host>:<port>/public/api/v1/network?guid=<guid>
```

Curl Response Example

None

/public/api/v1/network/load [Post]

Description: Loads a network, agent, discovery, or discovery result.
Request Headers: Authorization: Bearer <sessionGuid>
Request Body: NetworkRequest: application/json
Responses:
     200 OK
     400 Bad Request
     401 Unauthorized
     404 Not Found

Curl Request Example

```
curl --request POST \
    --header "Authorization: Bearer <sessionGuid>" \
    --header "Content-Type: application/json" \
    --data "{\"network_guid\":\"<networkGuid>\"}" \
    http://<host>:<port>/public/api/v1/network/load
```

Curl Response Example

```
None
```

/public/api/v1/network/unload [Delete]

Description: Unloads the network, agent, discovery, or discovery result currently loaded for the specified session.
Request Headers: Authorization: Bearer <sessionGuid>
Responses:
      200 OK
      400 Bad Request
      401 Unauthorized

Curl Request Example

```
curl --request DELETE \
    --header "Authorization: Bearer <sessionGuid>" \
    http://<host>:<port>/public/api/v1/network/unload
```

Curl Response Example

```
None
```

Device

/public/api/v1/device/infoset/list [Get]

Description: Gets the list (names and descriptions) of all infosets. Can be used to see which infosets can be used in a DeviceListRequest.
Request Headers: Authorization: Bearer <sessionGuid>
Responses:
      200 OK
            InfoSetListResponse: application/json
      401 Unauthorized
      404 Not Found

Curl Request Example

```
curl --request GET \
    --header "Authorization: Bearer <sessionGuid>" \
    http://<host>:<port>/public/api/v1/device/infoset/list
```

Curl Response Example

See InfoSetListResponse

/public/api/v1/device/category/list [Get]

Description: Gets the list of all category names. Can be used to see which category names can be used in the DeviceFilter of a DeviceListRequest.
Request Headers: Authorization: Bearer <sessionGuid>
Responses:
    200 OK
            DeviceCategoryListResponse: application/json
    401 Unauthorized
    404 Not Found

Curl Request Example

```
curl --request GET \
    --header "Authorization: Bearer <sessionGuid>" \
    http://<host>:<port>/public/api/v1/device/category/list
```

Curl Response Example

```
{"device_categories":["apple","core-device","dhcp","firewall","hyper-
v","imap","ip_camera_cctv","ip-phone","ip-phone-
manager","laptop","ldap","linux","ms-active-directory","ms-
exchange","ms-iis","ms-sqlserver","net-
device","pop","printer","router","server","smtp","snmp","switch","unix
","vcenter","virtual","virtual-host","virtual-machine","virtual-port-
group","virtual-server","virtual-
switch","vmware","vsphere","windows","windows-server","wireless-
ap","wireless-client","wireless-controller","wireless-
rogues","workstation"]}
```

/public/api/v1/device/list [Post]

Description: Gets the list of devices that match the specified device filter from the currently loaded network, agent, scheduled discovery or discovery result. Infosets are limited to the ones specified, or if none are specified, all infosets are included.
Request Headers: Authorization: Bearer <sessionGuid>
Request Body: DeviceListRequest: application/json
Responses:
    200 OK
            DeviceListResponse: application/json

401 Unauthorized
404 Not Found
422 Unprocessable Entity (if a network has not been loaded)

Curl Request Example

```
curl --request POST \
    --header "Authorization: Bearer <sessionGuid>" \
    --header "Content-Type: application/json" \
    --data "@<path to file containing request json>" \
    http://<host>:<port>/public/api/v1/device/list
```

Curl Response Example

See DeviceListResponse

/public/api/v1/device/connected [Post]

Description: Gets a list of devices that are connected to the specified devices. The optional filter can be used to specify what kinds of connected devices should be returned. It is also possible to specify which device infosets should be included for the returned connected devices.

Request Headers: Authorization: Bearer <sessionGuid>

Request Body: ConnectedDevicesRequest: application/json

Responses:

    200 OK

        DeviceListResponse: application/json

    401 Unauthorized
    404 Not Found
    422 Unprocessable Entity (if a network has not been loaded)

Curl Request Example

```
curl --request POST \
    --header "Authorization: Bearer <sessionGuid>" \
    --header "Content-Type: application/json" \
    --data "@<path to file containing request json>" \
    http://<host>:<port>/public/api/v1/device/connected
```

Curl Response Example

See DeviceListResponse

/public/api/v1/device/details/<deviceGuid> [Get]

Description: Gets detailed data for the device with the specified GUID. The information is returned in tabular form.

Request Headers: Authorization: Bearer <sessionGuid>

Responses:

200 OK

DeviceDetailsResponse: application/json

401 Unauthorized

404 Not Found

422 Unprocessable Entity (if a network has not been loaded)

Curl Request Example

```
curl --request GET \
    --header "Authorization: Bearer <sessionGuid>" \
    http://<host>:<port>/public/api/v1/device/details/<deviceGuid>
```

Curl Response Example

See DeviceDetailsResponse

/public/api/v1/device/topomap [Post]

Description: Returns a network map containing the devices specified in the request.

For static maps, the request should use the "deviceGuids" property to specify exactly which devices should be on the map.

For dynamic maps, the request should use the "primaryDeviceFilter" property to specify which devices should be on the map, and use the "connectedDeviceFilter" property to specify which devices that are connected to the primary devices should be included on the map.

The request should also include the layout settings and draw settings that should be used when generating the map.

Request Headers: Authorization: Bearer <sessionGuid>

Request Body: TopoMapRequest: application/json

Responses:

200 OK

TopoMap: application/json

401 Unauthorized

404 Not Found

422 Unprocessable Entity (if a network has not been loaded)

Curl Request Example

```
curl --request POST \
    --header "Authorization: Bearer <sessionGuid>" \
    --header "Content-Type: application/json" \
    --data "@<path to file containing request json>" \
    http://<host>:<port>/public/api/v1/device/topomap
```

Curl Response Example

See TopoMap

Agent

/public/api/v1/agent?guid=[theGuid] [Get]

Description: Gets the details of the specified agent. Specify the guid of the agent to be returned, as a query parameter. Use /network/list to see a list of available agent guids.
Request Headers: Authorization: Bearer <sessionGuid>
Responses:
>   200 OK
>>   Agent: application/json
>   401 Unauthorized
>   404 Not Found
>   422 Unprocessable Entity (if a network has not been loaded)

Curl Request Example

```
curl --request GET \
    --header "Authorization: Bearer <sessionGuid>" \
    http://<host>:<port>/public/api/v1/agent?guid=<agentGuid>
```

Curl Response Example

See Agent

/public/api/v1/agent [Post]

Description: Adds an agent to the currently loaded network.
Request Headers: Authorization: Bearer <sessionGuid>
Request Body: Agent: application/json
Responses:
>   201 OK

Agent: application/json
401 Unauthorized
409 Conflict
422 Unprocessable Entity (if a network has not been loaded)

Curl Request Example

```
curl --request POST \
     --header "Authorization: Bearer <sessionGuid>" \
     --header "Content-Type: application/json" \
     --data "@<path to file containing request json>" \
http://<host>:<port>/public/api/v1/agent
```

Curl Response Example

See Agent

/public/api/v1/agent [Put]

Description: Updates the specified agent. Use /network/list to see a list of available agent guids.

Request Headers: Authorization: Bearer <sessionGuid>
Request Body: UpdateAgentRequest: application/json
Responses:
200 OK

Agent: application/json
401 Unauthorized
404 Not Found
409 Conflict
422 Unprocessable Entity (if a network has not been loaded)

Curl Request Example

```
curl --request PUT \
     --header "Authorization: Bearer <sessionGuid>" \
     --header "Content-Type: application/json" \
     --data "@<path to file containing request json>" \
http://<host>:<port>/public/api/v1/agent
```

Curl Response Example

See Agent

/public/api/v1/agent?guid=[theGuid] [Delete]

Description: Deletes the specified agent. Specify the guid of the agent to be deleted, as a query parameter. Use /network/list to see a list of available agent guids.

Request Headers: Authorization: Bearer <sessionGuid>

Responses:

200 OK

401 Unauthorized

404 Not Found

422 Unprocessable Entity (if a network has not been loaded)

Curl Request Example

```
curl --request DELETE \
    --header "Authorization: Bearer <sessionGuid>" \
    http://<host>:<port>/public/api/v1/agent?guid=<agentGuid>
```

Curl Response Example

```
None
```

Discovery

/public/api/v1/discovery?guid=[theGuid] [Get]

Description: Gets the details of the specified scheduled discovery. Specify the guid of the scheduled discovery to be returned, as a query parameter. Use /network/list to see a list of available scheduled discovery guids.

Request Headers: Authorization: Bearer <sessionGuid>

Responses:

200 OK

ScheduledDiscovery: application/json

401 Unauthorized

404 Not Found

422 Unprocessable Entity (if a network has not been loaded)

Curl Request Example

```
curl --request GET \
    --header "Authorization: Bearer <sessionGuid>" \
    http://<host>:<port>/public/api/v1/discovery?guid=<discoveryGuid>
```

Curl Response Example

See ScheduledDiscovery

/public/api/v1/discovery [Post]

Description: Adds a scheduled discovery to the specified agent. Use /network/list to see a list of available agent guids.

Request Headers: Authorization: Bearer <sessionGuid>

Request Body: AddScheduledDiscoveryRequest: application/json

Responses:

    201 OK

        ScheduledDiscovery: application/json

    401 Unauthorized

    404 Not Found (if the agent is not found in the loaded network)

    409 Conflict

    422 Unprocessable Entity (if a network has not been loaded)

Curl Request Example

```
curl --request POST \
    --header "Authorization: Bearer <sessionGuid>" \
    --header "Content-Type: application/json" \
    --data "@<path to file containing request json>" \
http://<host>:<port>/public/api/v1/discovery
```

Curl Response Example

See ScheduledDiscovery

/public/api/v1/discovery [Put]

Description: Updates the specified scheduled discovery. Use /network/list to see a list of available scheduled discovery guids.

Request Headers: Authorization: Bearer <sessionGuid>

Request Body: UpdateScheduledDiscoveryRequest: application/json

Responses:

    200 OK

        ScheduledDiscovery: application/json

    401 Unauthorized

    404 Not Found

    409 Conflict

    422 Unprocessable Entity (if a network has not been loaded)

Curl Request Example

```
curl --request PUT \
    --header "Authorization: Bearer <sessionGuid>" \
    --header "Content-Type: application/json" \
```

```
      --data "@<path to file containing request json>" \
http://<host>:<port>/public/api/v1/discovery
```

Curl Response Example

See ScheduledDiscovery

/public/api/v1/discovery?guid=[theGuid] [Delete]

Description: Deletes the specified scheduled discovery. Specify the guid of the scheduled discovery to be deleted, as a query parameter. Use /network/list to see a list of available scheduled discovery guids.

Request Headers: Authorization: Bearer <sessionGuid>

Responses:

    200 OK
    401 Unauthorized
    404 Not Found
    422 Unprocessable Entity (if a network has not been loaded)

Curl Request Example

```
curl --request DELETE \
    --header "Authorization: Bearer <sessionGuid>" \
    http://<host>:<port>/public/api/v1/discovery?guid=<discoveryGuid>
```

Curl Response Example

```
None
```

/public/api/v1/discovery/run?guid=[theGuid] [Post]

Description: Schedules the discovery to run as soon as possible. Returns after the run is scheduled but before it actually runs. Specify the guid of the discovery to run, as a query parameter. Use /network/list to see a list of available scheduled discovery guids.

Request Headers: Authorization: Bearer <sessionGuid>

Responses:

    200 OK
    401 Unauthorized
    404 Not Found
    422 Unprocessable Entity (if a network has not been loaded)

Curl Request Example

```
curl --request POST \
    --header "Authorization: Bearer <sessionGuid>" \
```

```
http://<host>:<port>/public/api/v1/discovery/run?guid=<discoveryGuid>
```

Curl Response Example

```
None
```

Json

Requests

Json objects used in requests.

AddScheduledDiscoveryRequest

```
{
 agent_guid:"",
 // See ScheduledDiscovery for details.
}
```

DeviceListRequest

```
{
  "device_filter": { // Optional. Defaults to 'AllDevices'. See DeviceFilter for details },
  "info_set_names": ["name1", "name2"] // Optional. Missing = all; Empty = none
}
```

NetworkRequest

```
{
  "network_guid": "", // Required
  "agent_guid": "", // Required if discoveryGuid is specified
  "sched_disc_guid": "", // Required if discoveryResultGuid is specified
  "sched_disc_result_guid": ""
}
```

AddNetworkRequest

```
{
 "guid": null,
 "name": "Test",
 "description": "",
 "snmp_protocols": [ SnmpSettings ],
 "ssh_protocols": [ SshSettings ],
 "windows_protocols": [ WindowsSettings ],
```

```
  "telnet_protocols": [ TelnetSettings ],
  "http_protocols": [ HttpSettings ],
  "vmware_protocols": [ VMWareSettings ] ,
  "prtg_protocols": [ PrtgSettings ]
}
```

UpdateAgentRequest

Default Attribute

Used to specify attributes that should be reset to their default values. Use attribute names from Agent. Typically used to update values to null. This is necessary because null or missing attributes for the 'agent' property are left unchanged. Values specified in the 'agent' property take precedence over specified 'default' attributes.

```
{
  agent_guid = "", // Required
  agent = { // Optional unless default is null
    // See Agent for details.
  },
  default = ["attributeName1", "attributeName2"] // Optional unless agent is null
}
```

UpdateScheduledDiscoveryRequest

```
{
  sched_disc_guid = "", // Required
  scheduled_discovery = { // Required
    // See ScheduledDiscovery for details.
  }
}
```

ConnectedDevicesRequest

```
{
    "device_guids": [ "deviceGuid1", "deviceGuid2", …],
    "device_filter": { // Optional. Defaults to 'AllDevices'. See DeviceFilter for details },
    "info_set_names": ["name1", "name2"] // Optional. Missing = all; Empty = none
}
```

TopoMapRequest

```
{
    "deviceGuids": [ "deviceGuid1", "deviceGuid2", …], // Optional
    "primaryDeviceFilter": { // Optional. Defaults to 'AllDevices'. See DeviceFilter for details },
    "connectedDeviceFilter": { // Optional. Defaults to 'AllDevices'. See DeviceFilter for details },
```

```
     "layoutSettings": { // See LayoutSettings for details },
     "drawSettings": { // See DrawSettings for details },
}
```

Responses

Json objects used in responses.

DeviceCategoryListResponse

```
{
   "device_categories": ["category1", "category2", …]
}
```

DeviceListResponse

```
{
  "devices":[
    {
       "ip_address":"",
       "mac_address":"",
       "guid":"",
       "info_sets":{
          // Details depend on the info set
          },
          ...
       },
       "device_class":{
         "collector_profile":{
           "entries":[
             {
                "collector_name":"...",
                "source_name":"..."
             }
           ]
         }
       },
       "device_categories":{
         "entries":[
           {
              "device_category":"",
              "source_name":""
           },
           ...
         ]
```

```
        },
        "protocol_profile":{
          "entries":[
            {
              "protocol_name":"",
              "protocol_settings":{
                 // Details depend on the protocol
              }
            },
            ...
            }
          ]
        },
        "timestamp":""
      },
      ...
    ]
}
```

InfoSetListResponse

```
{
  "info_sets": [
    {
      "name": "",
      "description": ""
    },
    …
  ]
}
```

DeviceDetailsResponse

```
{
  "deviceGuid": "",
  "displayName": "",
  "infoSets": [
    {
      "infoSetName": "",
      "title": "",
      "columns": [
        {
          "field": "",
          "header": "",
          "type": "",
```

```
                    "visible": true/false,
                },
                …
            ],
            "entries": [
                {
                    "groupKey": "",
                    "values": [
                        {
                            "value": "",
                            "tagText": "",
                        },
                        …
                    ],
                },
                …
            ]
        },
        …
    ],
}
```

NetworkSummariesResponse

```
{
  "network_summaries":[
    {
      "guid":"",
      "created_time":"",
      "modified_time":"",
      "name":"",
      "description":"",
      "agent_summaries":[
        {
          "guid":"",
          "created_time":"",
          "modified_time":"",
          "name":"",
          "description":"",
          "discovery_summaries":[
            {
              "guid":"",
              "created_time":"",
              "modified_time":"",
              "name":"",
```

```json
            "discovery_run_summaries":[
              {
                "guid":"",
                "start_time":"",
                "end_time":""
              },
              ...
            ]
          },
          ...
        ]
      },
      ...
    ]
  },
  ...
  ]
}
```

NetworkSummaryResponse

```json
{
      "guid":"",
      "created_time":"",
      "modified_time":"",
      "name":"",
      "description":"",
      "agent_summaries":[
        {
          "guid":"",
          "created_time":"",
          "modified_time":"",
          "name":"",
          "description":"",
          "discovery_summaries":[
            {
              "guid":"",
              "created_time":"",
              "modified_time":"",
              "name":"",
              "discovery_run_summaries":[
                {
                  "guid":"",
                  "start_time":"",
```

```
                    "end_time":""
                },
                ...
            ]
        },
        ...
    ]
},
...
]
}
```

ProtocolSummariesResponse

```
[
    {
        "guid":"",
        "created_time":"",
        "modified_time":"",
        "name":"",
        "description":"",
        "protocol_type":""
    },
…
]
// NOTE: "protocol_type" examples include [snmp, ssh, telnet, http, windows,…]
```

SnmpSettings

```
{
        "guid":"",
        "name":"",
        "description":"",
        "created_time":"",
        "modified_time":"",
        "snmp_version ":"V1",
        "port ":"161",
        "read_community":"public",
        "write_community":"private",
        "timeout":2000,
        "retries":1,
        "username": "",
        "context": "",
```

```
        "auth_protocol": "",
        "auth_password": "",
        "encrypt_protocol": "",
        "encrypt_password":"",
        "ip_scopes ": { IpScopes },
}
```

```
// NOTE: auth_protocol: MD5, SHA1
//       encrypt_protocol: DES, AES128, AES192, AES256
```

SshSettings

```
{
        "guid":"",
        "name":"SSH.1",
        "description":"",
        "created_time":"",
        "modified_time":"",
        "protocol_version ":"",
        "port ":"22",
        "username ":"user",
        "password":"password",
        "enable_password":"password",
        "login_timeout":2500,
        "read_timeout":3000,
        "read_pause":3000,
        "ip_scopes ": { IpScopes },
}
```

TelnetSettings

```
{
        "guid":"",
        "name":"TELNET.1",
        "description":"",
        "created_time":"",
        "modified_time":"",
        "protocol_version ":"",
        "port ":"22",
        "username ":"user",
        "password":"password",
        "enable_password":"password",
        "login_timeout":2500,
```

```
    "read_timeout":3000,
    "read_pause":3000,
    "ip_scopes ": { IpScopes },
}
```

WindowsSettings

```
{
    "guid": null,
    "name": "WINDOWS",
    "description": null,
    "created_time": null,
    "modified_time": null,
    "username": "UVuser1",
    "password": "UVtest1",
    "use_powershell": false,
    "ip_scopes ": { IpScopes },
}
```

HttpSettings

```
{
     "guid":"",
     "name":"HTTP.1",
     "description":"",
     "created_time":"",
     "modified_time":"",
     "protocol_version ":"",
     "port ":"443",
     "use_https": true,
     "username": "UVuser1",
     "password": "UVtest1",
     "login_timeout": 2500,
     "read_timeout": 3000,
     "read_pause": 0,
     "target_server": "",
     "organization_filter": "",
     "site_network_filter": "",
     "is_meraki_key": false,
     "is_ruckus_key": false,
     "is_mist_key": false,
     "is_unifi_key": false,
```

```
        "ip_scopes ": { IpScopes },
}
```

VMWareSettings

```
{
        "guid": null,
        "name": "VMware.1",
        "description": "",
        "created_time": "",
        "modified_time": "",
        "username": "UVuser1",
        "password": "UVtest1",
        "ip_scopes ": { IpScopes },
}
```

PrtgSettings

```
{
        "guid": null,
        "name": "PRTG",
        "description": null,
        "created_time": null,
        "modified_time": null,
        "server_url": "http://127.0.0.1/",
        "username": "prtgadmin",
        "passhash": "passhash",
        "service_api_key": null
}
```

TopoMap

```
{
    "width": 0, // Integer
    "height": 0, // Integer
    "left": 0, // Integer
    "right": 0, // Integer
    "top": 0, // Integer
    "bottom": 0, // Integer
    "centerX": 0, // Integer
    "centerY": 0, // Integer
    "layoutSettings": { // See LayoutSettings for details },
```

```
   "drawSettings": { // See DrawSettings for details },
   "deviceNodes": [ // Array of DeviceNode ],
   "deviceGroupNodes": [ // Array of DeviceGroupNode ],
   "hubNodes": [ // Array of HubNode ],
   "deviceLinks": [ // Array of DeviceLink ],
}
```

DeviceNode

```
{
   "id": 0, // Integer
   "deviceGuid": "",
   "nodeId": 0, // Integer
   "displayName": "",
   "ipAddress": "",
   "macAddress": "",
   "hostname": "",
   "systemName": "",
   "netBiosName": "",
   "categories": {
      "entries": [
         {
            "categoryName": "",
            "categoryType": "", // "System", "User"
         },
         …
      ],
   },
   "vendor": "",
   "status": "", // "Unknown", "Down", "Warning", "Information", "Up", "Paused", "NoData"
   "x": 0, // Integer
   "y": 0, // Integer
   "centerX": 0, // Integer
   "centerY": 0, // Integer
   "bottom": 0, // Integer
   "width": 0, // Integer
   "height": 0, // Integer
   "selected": true/false,
}
```

DeviceGroupNode

```
{
```

```
    "id": 0, // Integer
    "deviceGroupGuid": "",
    "nodeId": 0, // Integer
    "displayName": "",
    "deviceCount": 0, // Integer
    "x": 0, // Integer
    "y": 0, // Integer
    "centerX": 0, // Integer
    "centerY": 0, // Integer
    "bottom": 0, // Integer
    "width": 0, // Integer
    "height": 0, // Integer
    "selected": true/false,
}
```

HubNode

```
{
    "nodeId": 0, // Integer
    "label": "",
    "x": 0, // Integer
    "y": 0, // Integer
    "centerX": 0, // Integer
    "bottom": 0, // Integer
    "width": 0, // Integer
    "height": 0, // Integer
    "type": "", // "Hub", "WirelessClient", "VirtualPortGroup"
}
```

DeviceLink

```
{
    "linkType": "",
    "noWireless": true/false,
    "allWirelessOrVm": true/false,
    "noVm": true/false,
    "linkMembers": [ // Array of DeviceLinkMember ],
    "linkEdges": [ // Array of DeviceLinkEdge ],
    "monitorState: "", // "Unknown", "Down", "Warning", "Information", "Up", "Paused", "NoData"
}
```

DeviceLinkMember

```
{
   "deviceGuid: "",
   "deviceName: "",
   "deviceIpAddress: "",
   "deviceMacAddress: "",
   "ifIndex: 0, // Integer
   "ifName: "",
   "monitorState: "", // "Unknown", "Down", "Warning", "Information", "Up", "Paused", "NoData"
   "connectedDeviceGuid: "",
   "connectedDevice: "",
   "connectedIfIndex: 0, // Integer
   "connectedIfName: "",
   "connectedMonitorState: "", // "Unknown", "Down", "Warning", "Information", "Up", "Paused",
"NoData"
   "radio: "",
   "ssid: "",
   "virtualPort: "",
   "virtualPortGroup:"",
   "linkType: "",
}
```

DeviceLinkEdge

```
{
   "localConnection": { // See DeviceConnection for details },
   "remoteConnection": { // See DeviceConnection for details },
}
```

DeviceConnection

```
{
   "deviceGuid: "",
   "nodeId: 0, // Integer
   "start: {
      "x": 0, // Integer
      "y": 0, // Integer
   },
   "end: {
      "x": 0, // Integer
      "y": 0, // Integer
   },
```

```
   "mid: {
      "x": 0, // Integer
      "y": 0, // Integer
   },
   "connectionType": "", // "Standard", "Lag", "Manual", "Association", "Multi"
   "interfaceLabels": [ "label1", "label2", … ],
   "deviceIpAddress": "",
   "deviceMacAddress": "",
   "deviceIfIndex": 0, // Integer
   "monitorState: "", // "Unknown", "Down", "Warning", "Information", "Up", "Paused", "NoData"
}
```

Other

Includes Json objects used in both requests and responses and lists of values assignable to Json attributes.

Agent

Add Operations

All attributes are optional for add operations except "name". Unspecified values are set to default values.

Update Operations

All attributes are optional for update operations. Unspecified attributes are unchanged.

```
{
  "guid":"", // Default: generated value
  "created_time":"", // Default: system creation time
  "modified_time":"", // Default: system creation time
  "user_guid":"", // Default: ""
  "scope_guid":"", // Default: ""
  "name":"", // Required
  "description":"", // Default: ""
  "protocol_settings":[  // Default: null
    {
      // Details depend on the protocol
    }
  ],
  "scheduled_discovery_guids":[ // Ignored if included for add and update
    "",
    ...
```

```
  ],
  "sched_disc_prtg_export":{
    // Ignored if included for add and update
  },
  "discovery_status_interval":"", // Default: "60"
  "events_interval":"", // Default: "120"
  "agent_auto_update":"", // Default: "True"
  "agent_auto_update_begin_time":"", //Default: "0001-01-01T09:00:00.0000000Z"
  "agent_auto_update_end_time":"", // Default: "0001-01-01T11:00:00.0000000Z",
  "agent_installer_location":"", // Default: null,
  "owner":"", // Default: null,
  "awol_client_agents_enabled":"", // Default: "False"
  "awol_client_agents_days":"", // Default: "0"
  "awol_client_agents_hours":"", // Default: "0"
  "awol_client_agents_minutes":"", // Default: "0"
  "client_agent_guid":"", // Default: ""
  "client_agent_host_name":"", // Default: ""
  "client_agent_computer_name":"", // Default: ""
  "client_agent_last_config_poll_time":"", // Default: "0001-01-01T00:00:00.0000000Z"
  "client_agent_last_awol_notify_time":"", // Default: "0001-01-01T00:00:00.0000000Z"
  "poll_interval":"", // Default: "300"
  "monitor_max_threads":"", // Default: "40"
  "require_login":"", // Default: "True"
  "awol":"", // Default: "False"
}
```

DeviceFilter

```
{
  "include_scope": "", // Required. One of "NoDevices", "AllDevices", "AllNetworkDevices",
"AllSnmpDevices" Default: "AllDevices"
  "device_names": ["Device1", "Device2"], // Optional
  "ip_scopes": [{// Optional. See IpScopes for details }],
  "device_categories": { // Optional
    "category_filter_type": "", // Required. One of "All" or "Any"
    "category_names": ["Category1", "Category2"]
  },
  "vlans": [ "vlan1", "vlan2"], // Optional
  "system_oids": ["oid1", "oid2"] // Optional
}
```

IpScopes

```
{
  "addresses": ["ipAddress1", "ipAddress2"], // Optional
```

```
  "ranges": [ // Optional
    {
      "min_address": "",
      "max_address": ""
    },
    ...
  ],
  "Subnets": [ // Optional
    {
      "ip_address": "",
      "subnet_mask": ""
    },
    ...
  ],
  "octet_ranges": [ // Optional
    {
      "min_a": "",
      "max_a": "",
      "min_b": "",
      "max_b": "",
      "min_c": "",
      "max_c": "",
      "min_d": "",
      "max_d": ""
    },
    ...
  ],
  "hosts": [ "host1", "host2"] // Optional
}
```

ScheduledDiscovery

Add Operations

All attributes are optional for add operations except "name" and "discovery_settings/ seed_scope". Unspecified values are set to default values.

Update Operations

All attributes are optional for update operations. Unspecified attributes that have default values are set to their default values. Unspecified attributes that do not have default values are unchanged. If "discovery_settings" is unspecified, all discovery settings values are unchanged.

Discovery "guid" and discovery settings "guid" may be unspecified but cannot be changed. "Created_time" and "modified_time" are set internally and any specified values are ignored.

```
{
    "guid":"", // Default: generated value
    "created_time":"", // Default: system creation time
    "modified_time":"", // Default: system creation time
    "name":"", // Required
    "schedule_type":"",  // Default: "Discovery"
    "schedule":{ // Default: null
        "type":"", // See Schedule Types for list of available values. Default: "None"
        "intervals":"",
        "start_times":""
    },
    "enabled":"", // Default: "False"
    "export_configs_to_server":"", // Default: "False"
    "config_export_folder":"", // Default: null
    "create_device_subfolder":"", // Default: "False"
    "config_save_changes_only":"", // Default: "False"
    "keep":"", // Default: "1"
    "device_expiration_value":"", // Default: "7"
    "device_expiration_unit":"", // One of "Days", "Hours", "Minutes". Default: "Days"
    "dynamic_device_window":"", // Default: "1"
    "dynamic_device_filter": {
        // See DeviceFilter for details
    },
    "log_events":"", // Default: "True"
    "mail_events":"", // Default: "False"
    "mail_events_changes_only":"", // Default: "False"
    "email_system_recipients":"", // Default: "False"
    "email_assets_report":"", // Default: "False"
    "email_deviceconnectivity_report":"", // Default: "False"
    "email_recipients":"", // Default: null
    "desktop_notify_events":"", // Default: "False"
    "sched_disc_prtg_export":{
        "enable_export":"", // Default: "False"
        "export_origin":"", // Default: "agent"
        "remove_missing_devices":"", // Default: "False"
        "add_device_dependency":"", // Default: "False"
        "add_ping_monitors":"", // Default: "True"
        "add_snmp_uptime_monitors":"", // Default: "False"
        "add_snmp_cpu_monitors":"", // Default: "False"
        "add_snmp_memory_monitors":"", // Default: "False"
        "add_snmp_diskfree_monitors":"", // Default: "False"
```

```
      "add_snmp_if_monitors":"", // Default: "False"
      "add_snmp_if_monitors_allup":"", // Default: "False"
      "add_snmp_if_monitors_allphysical":"", // Default: "False"
      "add_snmp_if_monitors_alluplinks":"", // Default: "False"
      "add_wmi_uptime_monitors":"", // Default: "False"
      "add_wmi_cpu_monitors":"", // Default: "False"
      "add_wmi_memory_monitors":"", // Default: "False"
      "add_wmi_disk_space_monitors":"", // Default: "False"
      "use_templates":"", // Default: "False"
      "export_maps":"", // Default: "False"
      "export_maps_only":"", // Default: "False"
      "merge_maps_on_export":"", // Default: "False"
      "export_master_only":"" // Default: "False"
    },
    "device_merge":"", // Default: null
    "custom_script":"", // Default: null
    "is_discovery_refresh":"", // Default: "False"
    "keep_stale_port_report":"", // Default: "False"
    "discovery_settings":{ // Required for add, optional for update
      "guid":"", // Default: generated value
      "created_time":"", // Default: system creation time
      "modified_time":"", // Default: system creation time
      "name":"", // Default: same as discovery name
      "description":"", // Default: null
      "discovery_method":"", // One of "None", "PingSweep", "Crawl", "NeighborCrawl". Default:
None
      "max_threads":"", // Default: 40
      "ping_first":"", // Default: "True"
      "ping_timeout":"", // Default: "2000"
      "ping_retries":"", // Default: "1"
      "resolve_host_names":"", // Default: "True"
      "capture_configs":"", // Default: "False"
      "enable_cli_discovery":"", // Default: "False"
      "snmp_port_range":"", // Default: null
      "ssh_port_range":"", // Default: null
      "telnet_port_range":"", // Default: null
      "seed_scope":{ // Required for add, optional for update
        // See IpScopes for details }
      },
      "include_scope":{ // Default: null
        // See IpScopes for details }
      },
      "include_categories":[ // Default: null
        "",
```

36

```
            ""
      ],
      "exclude_scope":{ // Default: null
          // See IpScopes for details }
      },
      "exclude_categories":[ // Default: null
          "",
          ""
      ],
      "max_total_time":"", // Default: "00:00:00"
      "max_device_time"", // Default: "00:00:00"
      "max_info_time":"", // Default: "00:00:00"
      "windows_full_inventory":"", // Default: "False"
      "is_discovery_refresh":"", // Default: "False"
      "is_discovery_find_ip_or_mac_address":"", // Default: "False"
      "find_hostname":"", // Default: null
      "find_ip_address":"", // Default: null
      "find_mac_address":"" // Default: null
   }
}
```

Schedule Types

None
Seconds_Interval
Minutes_Interval
Hours_Interval
Days_Interval
Weekly_SelectedDays
Monthly_NthDay
Monthly_OrdinalDay
Yearly_NthDayOfMonth
Yearly_OrdinalDayOfMonth

LayoutSettings

```
{
   "layoutType": "", // "Manual", "Radial", "Hierarchical", "Ring"
   "useStraightLinks": true/false,
   "showLayer2Links": true/false,
   "showVirtualLinks": true/false,
   "showWirelessLinks": true/false,
   "showIpPhoneLinks": true/false,
   "showLinkLabels": true/false,
```

```
“radialSettings”: {
    “minRadius”: 0,
    “maxRadius”: 0,
    “maxAngle”: 0,
    “maximizeRoot”: true/false,
},
“hierarchicalSettings”: {
    “levelSpacing”: 0,
    “useStraightLinks”: true/false,
    “nodeSpacing”: 0,
    “layoutDirection”: “”, // “Left”, “Right”, “Up”, “Down”
    “rootAlignment”: “”, // “Left”, “Center”, “Right”
},
“ringSettings”: {
    “minRadius”: 0,
    “maxRadius”: 0,
    “maxAngle”: 0,
    “maximizeRoot”: true/false,
},
}
```

DrawSettings

```
{
    “shortDeviceNames”: true/false,
    “deviceTrimLeft”: true/false,
    “deviceTrimRight”: true/false,
    “deviceTrimLeftChar”: “.”, // Defaults to “.”
    “deviceTrimRightChar”: “.”, // Defaults to “.”
    “deviceTrimRightCount”: 1, // Defaults to 1,
    “deviceTrimLeftCount”: 1, // Defaults to 1,
    “shortIfNames”: true/false,
    “hideVendorImage”: true/false,
    “hidePlatformImage”: true/false,
    “deviceDisplaySetting”: “” // “Default”, “Hostname”, “IpAddress”, “HostnameAndIpAddress”,
    “standardPen”: { // See PenPattern for details   },
    “lagPen”: { // See PenPattern for details },
    “lagPen”: { // See PenPattern for details },
    “manualPen”: { // See PenPattern for details },
    “associatedPen”: { See PenPattern for details },
    “multiPen”: { See PenPattern for details },
    “stpForwardingPen”: { // See PenPattern for details },
    “stpBlockingPen”: { // See PenPattern for details },
}
```

PenPattern

```
{
    "color": {
        "red": 0, // 0 – 255
        "green": 0, // 0 – 255
        "blue": 0, // 0 - 255
    },
    "width": 1, // Defaults to 1
    "dashStyle": "", // "Solid", "Dash", "Dot", "DashDot", "DashDotDot"
}
```