

# SMI Micro-service

## *Device Discovery*

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# 1. Overview

## 1.1. Version information

Version : API Version :1.0

Release Version :1.0.130

Release Tag :devel

Release Date :10-03-2017\_09-54

## 1.2. URI scheme

Host : 10.62.59.155:46002

BasePath : /

## 1.3. Tags

- device-discovery-controller : Device Discovery Controller

# 2. Resources

## 2.1. Device-discovery-controller

Device Discovery Controller

### 2.1.1. /ips

POST /api/1.0/discover/ips

#### Description

This operation will ping sweep and discover devices within the given IP list.

#### Parameters

Type	Name	Description	Schema
Body	<b>deviceIps</b> <i>required</i>	deviceIps	<a href="#">DevicesIpsRequest</a>

#### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">DiscoverdDeviceResponse</a>

HTTP Code	Description	Schema
201	Created	No Content
400	Bad Request	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content
500	Failure	No Content

### Consumes

- `application/json`

### Produces

- `application/json`

### Example HTTP request

#### Request path

```
/api/1.0/discover/ips
```

#### Request body

```
{
  "credential" : {
    "address" : "string",
    "identifier" : "string",
    "password" : "string",
    "userName" : "string"
  },
  "deviceType" : [ "string" ],
  "ips" : [ "string" ]
}
```

### Example HTTP response

#### Response 200

```
{
  "deviceGroup" : "string",
  "discoveredDeviceList" : [ {
    "deviceName" : "string",
    "discovered" : 0,
    "discoveredDeviceInfoList" : [ {
      "deviceType" : "string",
      "ipAddress" : "string",
      "macAddress" : "string",
      "status" : "string",
      "summary" : "object"
    } ]
  } ]
}
```

### 2.1.2. /range

POST /api/1.0/discover/range

#### Description

This operation will ping sweep and discover devices within the given IP range.

#### Parameters

Type	Name	Description	Schema
Body	<b>discoverIPRangeDeviceRequests</b> <i>required</i>	discoverIPRangeDeviceRequests	<a href="#">DiscoverIPRangeDeviceRequests</a>

#### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">DiscoverdDeviceResponse</a>
201	Created	No Content
400	Bad Request	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content
500	Failure	No Content

## Consumes

- `application/json`

## Produces

- `application/json`

## Example HTTP request

### Request path

```
/api/1.0/discover/range
```

### Request body

```
{
  "credential" : {
    "address" : "string",
    "identifier" : "string",
    "password" : "string",
    "userName" : "string"
  },
  "discoverIpRangeDeviceRequests" : [ {
    "credential" : {
      "address" : "string",
      "identifier" : "string",
      "password" : "string",
      "userName" : "string"
    },
    "deviceEndIp" : "string",
    "deviceStartIp" : "string",
    "deviceType" : [ "string" ]
  } ]
}
```

## Example HTTP response

### Response 200

```
{
  "deviceGroup" : "string",
  "discoveredDeviceList" : [ {
    "deviceName" : "string",
    "discovered" : 0,
    "discoveredDeviceInfoList" : [ {
      "deviceType" : "string",
      "ipAddress" : "string",
      "macAddress" : "string",
      "status" : "string",
      "summary" : "object"
    } ]
  } ]
}
```

## 3. Definitions

### 3.1. Credential

Device access credential.

Name	Description	Schema
<b>address</b> <i>required</i>	IP Address <b>Example</b> : "string"	string
<b>identifier</b> <i>optional</i>	Service identifier like service tag ... etc <b>Example</b> : "string"	string
<b>password</b> <i>required</i>	Password. <b>Example</b> : "string"	string
<b>userName</b> <i>required</i>	Username. <b>Example</b> : "string"	string

### 3.2. DevicesIpsRequest

Array of IP request for device discovery.

Name	Description	Schema
<b>credential</b> <i>optional</i>	Credential <b>Example</b> : "Credential"	<a href="#">Credential</a>
<b>deviceType</b> <i>optional</i>	Device type filter. Filter can SERVER / CHASSIS / SWITCH or STORAGE. By default all types would be selected. <b>Example</b> : [ "string" ]	< string > array
<b>ips</b> <i>required</i>	List of valid IP's <b>Example</b> : [ "string" ]	< string > array

### 3.3. DiscoverDeviceRequest

IP range request for device discovery.

Name	Description	Schema
<b>credential</b> <i>optional</i>	Credential for all the devices for summary extraction. <b>Example :</b> <code>"Credential"</code>	<a href="#">Credential</a>
<b>deviceEndIp</b> <i>required</i>	IP end range <b>Example :</b> <code>"string"</code>	string
<b>deviceStartIp</b> <i>required</i>	IP start range <b>Example :</b> <code>"string"</code>	string
<b>deviceType</b> <i>optional</i>	Device type filter. Filter can SERVER / CHASSIS / SWITCH or STORAGE. By default all types would be selected. <b>Example :</b> <code>[ "string" ]</code>	< string > array

### 3.4. DiscoverIPRangeDeviceRequests

IP range request object for device discovery.

Name	Description	Schema
<b>credential</b> <i>optional</i>	Credential <b>Example :</b> <code>"Credential"</code>	<a href="#">Credential</a>
<b>discoverIpRangeDeviceRequests</b> <i>optional</i>	<b>Example :</b> <code>[ "DiscoverDeviceRequest" ]</code>	< <a href="#">DiscoverDeviceRequest</a> > array

### 3.5. DiscoveredDeviceResponse

Response object for device discovery.

Name	Description	Schema
<b>deviceGroup</b> <i>optional</i>	Device group name. Group name can be SERVER / CHASSIS / SWITCH or STORAGE <b>Example :</b> <code>"string"</code>	string
<b>discoveredDeviceList</b> <i>optional</i>	List of discovered device types. <b>Example :</b> <code>[ "DiscoveredDeviceTypes" ]</code>	< <a href="#">DiscoveredDeviceTypes</a> > array

### 3.6. DiscoveredDeviceInfo

Discovered device information.



Name	Description	Schema
<b>deviceType</b> <i>optional</i>	Device of the associated IP. It could be IDRAC6 : IDRAC7 : IDRAC8 : IDRAC9 : CMC : CMC_FX2 : CSERVER : VRTX : VCENTER : FORCE10_S4810 : FORCE10_S5000 : FORCE10_S6000 : FORCE10_S4048 : FORCE10_S55 : FORCE10IOM : FX2_IOM : DELL_IOM_84 : BROCADE : POWERCONNECT : POWERCONNECT_N3000 : POWERCONNECT_N4000 : CISCONEXUS : EQUALLOGIC_NODISCOVER : EM_COMPELLENT : EQUALLOGIC : COMPELLENT : UNKNOWN <b>Example</b> : "string"	string
<b>ipAddress</b> <i>optional</i>	IPv4 address of the device <b>Example</b> : "string"	string
<b>macAddress</b> <i>optional</i>	Mac Address of the device would be null based on the network layer of discovery. arping is used for finding the mac address <b>Example</b> : "string"	string
<b>status</b> <i>optional</i>	Discovery status . It could be any on these status . UNKNOWN : TIMEDOUT : STARTED("Started discovery process") : DEVICE_IDENTFIED : NO_DEVICE("No device identified") : SUMMARY_INPROGRESS : DEVICE_DISCOVERED_SUMMARY_FAILED("Device is discovered without summary.") : SUCCESS("Successfully discovered with device summary.") : FAILED("Failed to discover") <b>Example</b> : "string"	string
<b>summary</b> <i>optional</i>	Brief summary for discovered device. Refer 'Device Summary Response' for the details on summary schema. <b>Example</b> : "object"	object

## 3.7. DiscoveredDeviceTypes

Discovered devices are grouped by filter types such as SERVER / CHASSIS / SWITCH or STORAGE .

Name	Description	Schema
<b>deviceName</b> <i>optional</i>	Device type name .It could be IDRAC6 : IDRAC7 : IDRAC8 : IDRAC9 : CMC : CMC_FX2 : CSERVER : VRTX : VCENTER : FORCE10_S4810 : FORCE10_S5000 : FORCE10_S6000 : FORCE10_S4048 : FORCE10_S55 : FORCE10IOM : FX2_IOM : DELL_IOM_84 : BROCADE : POWERCONNECT : POWERCONNECT_N3000 : POWERCONNECT_N4000 : CISCONEXUS : EQUALLOGIC_NODISCOVER : EM_COMPELLENT : EQUALLOGIC : COMPELLENT <b>Example</b> : "string"	string
<b>discovered</b> <i>optional</i>	Number of device typediscovered in the range. <b>Example</b> : 0	integer (int32)

Name	Description	Schema
<b>discoveredDeviceInfoList</b> <i>optional</i>	List of discovered type information. <b>Example :</b> [ "DiscoveredDeviceInfo" ]	< DiscoveredDeviceInfo > array