Full API v.2 documentation

Overview

Basics

The Unimus API is a JSON based RESTfull API. It utilizes common HTTP methods such as **GET**, **PO ST**, **PATCH** and **DELETE** in order to identify
action you want to perform.

When submitting a request that contains a body you must include a header for **Content-type** that specifies **application/json**.

API Version 2 is supported by Unimus 1.7.x and newer. API version 1 is no longer supported.

API changes since version 1

- Backup
  - renamed field **createTime** to **validSince**, represents the time the configuration has been retrieved from the device for the **first** time
  - added field **validUntil**, represents the time the configuration has been retrieved from the device for the **last** time
- Device
  - removed fields **port**, **connector**, **credential**
  - added field **connections**, which is an array of discovered connections, each connection entity contains fields **type** (SSH,TELNET), **port**, **credentials** (array of all usable credentials) and **enablePassword** (if not same as login password).
  - entity graph attribute nodes for fetching device credentials **credential**,**cred**,**c** are no longer supported
  - added entity graph attribute nodes for fetching connections **connections**, **conn**, **c**.
- Run job - backup device
  - removed field **undiscovered**, which represented the number of un-discovered devices excluded from backup job
  - added field **sentForDiscovery**, which represent the number of un-discovered devices sent for discovery (and backup if discovery will succeed)

Security

Every request has to include **Authorization** header following Bearer scheme as shown below.

```
Authorization: Bearer <token>
```

Log into your local Unimus instance and navigate to **User management > API tokens** section to create new token.

Returned data format

All responses are returned as JSON. If a response can ever contain a single item it will be formatted as follow:

```
{
   "data":{
      "someKey":"someValue",
      "anotherKey":"anotherValue"
   }
}
```

Multi-item responses are paginated automatically. The maximum amount of items that can be returned in a single query is 50, default is 20. You may specify the number of items to be returned in response by appending a query parameter **size.**

You may specify the page you wish to view by appending a parameter **page,** default is 0. Multi-item responses are formatted as follow:

```
{
   "data":[
      {
         "someKey":"someValue",
         "anotherKey":"anotherValue"
      },
      {
         "someKey":"someValue",
         "anotherKey":"anotherValue"
      }
   ],
   "paginator":{
      "totalCount":12,
      "totalPages":6,
      "page":0,
      "size":2
   }
}
```

All successful response are sent with an HTTP response code **2xx.**

Failure response format

If an API response fails, it will be sent with a **non-2xx** response code and JSON in the following format:

```
{
   "timestamp":1511904038642,
   "code":400,
   "error":"Bad Request",
   "message":"This is why it fails"
}
```

The HTTP status codes currently returned by the API are **301** if the API version is not supported **400** if request syntax is wrong, **401** if request is unauthorized, **404** if requesting with item ID and item is not found or request path is not supported by the API, **405** if the method is not supported, **415** if media type is not supported, **503** if request can not be served. Any internal application errors will respond with a **500** code and we will be grateful if u report them to us.

API documentation

General

Health check

Get Unimus health status.

Method: **GET**

```
http://example.unimus/api/v2/health
```

CURL

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>"
"http://<example.unimus>/api/v2/health"
```

Success 200

Field	Type	Description
status	String	**OK** - Unimus is ready to handle all requests. **LICENSING_UNREACHABLE** - License server is unreachable. All request will proceed except add, remove and update device. **ERROR** - Unimus require user interaction to solve the problem. All requests will be refused.

Success response

```
HTTP/1.1 200 OK
{
   "data":{
      "status":"OK"
   }
}
```

Schedules

Schedules - get schedule

Get an individual schedule.

Method: **GET**

```
http://example.unimus/api/v2/schedules/:scheduleId
```

CURL

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>"
"http://<example.unimus>/api/v2/schedules/<scheduleId>"
```

Parameter

Field	Type	Description
scheduleId	Number	The ID of the schedule

Success 200

Field	Type	Description
id	Number	The ID of the schedule
createTime	Number	Schedule creation time in seconds
periodicity	String	Schedule periodicity. Possible values: **MONTHLY**, **WEEKLY**, **DAILY**, **HOURLY**
dom	Number	Day of month
dow	Number	Day of week
hour	Number	Hour of day
min	Number	Minute of hour
name	String	Schedule pretty name

Success response

```
 HTTP/1.1 200 OK
{
   "data":{
      "id":7,
      "createTime":1511863250,
      "periodicity":"MONTHLY",
      "dom":1,
      "dow":1,
      "hour":0,
      "min":6,
      "name":"Every month, on day 1, at 00:06."
   }
}
```

Error 4xx

Name	Type	Description

timestamp	Number	Current timestamp
code	Number	404
error	String	HTTP code message
message	String	Error message

Schedules - get schedules

Get a list of all schedules in Unimus.

Method: **GET**

```
http://example.unimus/api/v2/schedules?page=:pageIndex&size=:pageSize
```

CURL

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>"
"http://<example.unimus>/api/v2/schedules?page=0&size=20"
```

Parameter

Name	Type	Description
pageIndex	Number	Page index (OPTIONAL)
pageSize	Number	Page size (OPTIONAL)

Success 200

Name	Type	Description
id	Number	The ID of the schedule
createTime	Number	Schedule creation time in seconds
periodicity	String	Schedule periodicity. Possible values: **MONTHLY**, **WEEKLY**, **DAILY**, **HOURLY**
dom	Number	Day of month
dow	Number	Day of week
hour	Number	Hour of day
min	Number	Minute of hour
name	String	Schedule pretty name

Success response

```
 HTTP/1.1 200 OK
{
   "data":[
      {
         "id":5,
         "createTime":1511863239,
         "periodicity":"MONTHLY",
         "dom":5,
         "dow":1,
         "hour":0,
         "min":0,
         "name":"Every month, on day 5, at 00:00."
      },
      {
         "id":7,
         "createTime":1511863250,
         "periodicity":"MONTHLY",
         "dom":1,
         "dow":1,
         "hour":0,
         "min":6,
         "name":"Every month, on day 1, at 00:06."
      }
   ],
   "paginator":{
      "totalCount":7,
      "totalPages":4,
      "page":1,
      "size":2
   }
}
```

Devices

Devices - get device by ID

Get an individual device by ID.

Method: **GET**

```
http://example.unimus/api/v2/devices/:deviceId?attr=:attributes
```

Curl

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>"
"http://<example.unimus>/api/v2/devices/<deviceId>?attr=s,c"
```

Parameter

Name	Type	Description
deviceId	Number	The ID of the device
attributes	String	Comma separated attribute nodes. (OPTIONAL) Possible values: device schedule: **schedule, sch, s** device connections: **connections, conn, c**

Success 200

Name	Type	Description
id	Number	The ID of the device
uuid	String	The UUID of the device (used in APIv3)
createTime	Number	Device creation time in seconds
address	String	Hostname, IPv4 or IPv6
description	String	Device description
managed	Boolean	Managed state
schedule	Object	Device schedule
vendor	String	Vendor
type	String	Type
model	String	Model
lastJobStatus	String	Status of the last job. Possible values: SUCCESSFUL, FAILED, UNKNOWN (no job ran yet or unmanaged)
connections	Array	Device connections
zoneId	String	The ID of the zone

Success response

```
HTTP/1.1 200 OK
{
   "data":{
      "id":1,
      "createTime":1525101029,
      "address":"198.18.0.0",
      "description":null,
      "managed":true,
      "schedule":{
         "id":1,
         "createTime":1524564606,
         "periodicity":"DAILY",
         "dom":-1,
         "dow":-1,
         "hour":3,
         "min":0,
         "name":"Every day at 03:00."
      },
      "vendor":"MikroTik",
      "type":"RouterOS",
      "model":"Simulated-RouterOS",
      "lastJobStatus":"SUCCESSFUL"
      "connections":[
         {
            "type":"SSH",
            "port":22,
            "credentials":[
               {
                  "id":1,
                  "username":"test",
                  "password":"test",
                  "sshKey":null
               }
            ],
            "enablePassword":null

         }
      ],
      "zoneId": "1"
   }
}
```

Error 4xx

Name	Type	Description
timestamp	Number	Current timestamp
code	Number	400
error	String	HTTP code message
message	String	Error message

Error response

```
HTTP/1.1 400 BAD REQUEST
{
   "timestamp":1511869830038,
   "code":400,
   "error":"Bad Request",
   "message":"Argument deviceId type mismatch"
}
```

Devices - get device by address

Get an individual device by address.

Method: **GET**

```
http://example.unimus/api/v2/devices/findByAddress/:address?attr=:attributes&zoneId=:zone_ID
```

CURL

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>" "http://<example.unimus>/api/v2/devices/findByAddress/<address>?attr=s,c&zoneId=<zone ID>"
```

Parameter

Name	Type	Description
address	String	Device address
attributes	String	Comma separated attribute nodes. (OPTIONAL) Possible values: device schedule: **schedule, sch, s** device connections: **connections, conn, c**
`zoneId`	String	Zone ID (as seen in UI) (OPTIONAL) Default Zone used if not specified

Success 200

Name	Type	Description
id	Number	The ID of the device
uuid	String	The UUID of the device (used in APIv3)
createTime	Number	Device creation time in seconds
address	String	Hostname, IPv4 or IPv6
description	String	Device description
managed	Boolean	Managed state
schedule	Object	Device schedule
vendor	String	Vendor
type	String	Type
model	String	Model
lastJobStatus	String	Status of the last job. Possible values: SUCCESSFUL, FAILED, UNKNOWN (no job ran yet or unmanaged)
connections	Array	Device connections
zoneId	String	The ID of the zone

Success response

```
HTTP/1.1 200 OK
{
   "data":{
      "id":1,
      "uuid":D-aaaacccc-bbee-4321-b42b-abc1234d101b"
      "createTime":1525101029,
      "address":"198.18.0.0",
      "description":null,
      "managed":true,
      "schedule":null,
      "vendor":"MikroTik",
      "type":"RouterOS",
      "model":"Simulated-RouterOS",
      "lastJobStatus":"SUCCESSFUL"
      "connections":[

      ],
      "zoneId": "1"
   }
}
```

Error 4xx

Name	Type	Description
timestamp	Number	Current timestamp

code	Number	404
error	String	HTTP code message
message	String	Error message

Error response

```
HTTP/1.1 404 BAD REQUEST
{
   "timestamp":1511862182524,
   "code":404,
   "error":"Not Found",
   "message":"Device with address some_address not found"
}
```

Devices - get devices by description

Get a list of devices which description contains given term.

Method: **GET**

```
http://example.unimus/api/v2/devices/findByDescription/:description?attr=:
attributes
```

CURL

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>"
"http://<example.unimus>/api/v2/devices/findByDescription/<description>?at
tr=s,c"
```

Parameter

Name	Type	Description
description	String	Device description
attributes	String	Comma separated attribute nodes. (OPTIONAL) Possible values: device schedule: **schedule, sch, s** device connections: **connections, conn, c**

Success 200

Name	Type	Description
id	Number	The ID of the device
uuid	String	The UUID of the device (used in APIv3)
createTime	Number	Device creation time in seconds

address	String	Hostname, IPv4 or IPv6
description	String	Device description
managed	Boolean	Managed state
schedule	Object	Device schedule
vendor	String	Vendor
type	String	Type
model	String	Model
lastJobStatus	String	Status of the last job. Possible values: SUCCESSFUL, FAILED, UNKNOWN (no job ran yet or unmanaged)
connections	Array	Device connections
zoneId	String	The ID of the zone

Success response

```
HTTP/1.1 200 OK
{
   "data":[
      {
         "id":1,
         "uuid":D-aaaacccc-bbee-4321-b42b-abc1234d101b"
         "createTime":1525101574,
         "address":"198.1.0.1",
         "description":"Main back-bone",
         "managed":true,
         "schedule":null,
         "vendor":"MikroTik",
         "type":"RouterOS",
         "model":"Simulated-RouterOS",
         "lastJobStatus": "SUCCESSFUL"
         "connections":[

         ],
         "zoneId": "1"
      }
   ],
   "paginator":{
      "totalCount":1,
      "totalPages":1,
      "page":0,
      "size":20
   }
}
```

Devices - get devices

Get a list of devices.

Method: **GET**

```
http://example.unimus/api/v2/devices?page=:pageIndex&size=:pageSize&attr=:attributes
```

CURL

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>" "http://<example.unimus>/api/v2/devices?page=0&size=20&attr=s,c"
```

Parameter

Name	Type	Description
pageIndex	Number	Page index (OPTIONAL)
pageSize	Number	Page size (OPTIONAL)
attributes	String	Comma separated graph attribute nodes.(OPTIONAL) Possible values for device schedule: **schedule, sch, s** for device credential: **credential, cred, c**

Success 200

Name	Type	Description
id	Number	The ID of the device
uuid	String	The UUID of the device (used in APIv3)
createTime	Number	Device creation time in seconds
address	String	Hostname, IPv4 or IPv6
description	String	Device description
managed	Boolean	Managed state
schedule	Object	Device schedule
vendor	String	Vendor
type	String	Type
model	String	Model
lastJobStatus	String	Status of the last job. Possible values: SUCCESSFUL, FAILED, UNKNOWN (no job ran yet or unmanaged)
connections	Array	Device connections
zoneId	String	The ID of the zone

Success response

```
HTTP/1.1 200 OK
{
   "data":[
      {
         "id":1,
         "uuid":D-aaaacccc-bbee-4321-b42b-abc1234d101b"
         "createTime":1525101029,
         "address":"198.18.0.0",
         "description":null,
         "managed":true,
         "schedule":null,
         "vendor":"MikroTik",
         "type":"RouterOS",
         "model":"Simulated-RouterOS",
         "lastJobStatus":"SUCCESSFUL"
         "connections":[

         ],
         "zoneId": "1"
      }
   ],
   "paginator":{
      "totalCount":1,
      "totalPages":1,
      "page":0,
      "size":20
   }
}
```

Devices - create new device

Create a new device.

Method: **POST**

```
http://example.unimus/api/v2/devices
```

CURL

```
curl -H "Accept: application/json" -H "Content-type: application/json" -H
"Authorization: Bearer <token>"
-d
'{"address":"<address>","description":"<description>","zoneId":"<zone_ID>"
,"managed":<true|false>}' "http://<example.unimus>/api/v2/devices"
```

Parameter

Name	Type	Description
address	String	Device address
description	String	Description of the new device
scheduleId	Number	Schedule id (OPTIONAL) If omitted then device will be backed up according to system default schedule
zoneId	String	Zone ID (as seen in UI) (OPTIONAL) if omitted then device will be created in the default Zone

Success 201

Name	Type	Description
id	Number	The ID of the device
uuid	String	The UUID of the device (used in APIv3)
createTime	Number	Device creation time in seconds
address	String	Hostname, IPv4 or IPv6
description	String	Device description
managed	Boolean	Managed state
schedule	Object	Device schedule
vendor	String	Vendor
type	String	Type
model	String	Model
lastJobStatus	String	Status of the last job. Possible values: SUCCESSFUL, FAILED, UNKNOWN (no job ran yet or unmanaged)
connections	Array	Device connections
zoneId	String	The ID of the zone

Success response

```
HTTP/1.1 201 CREATED
{
   "data":{
      "id":1,
      "uuid":D-aaaacccc-bbee-4321-b42b-abc1234d101b"
      "createTime":1525101029,
      "address":"198.18.0.0",
      "description":null,
      "managed": true,
      "schedule":{
         "id":1,
         "createTime":1524564606,
         "periodicity":"DAILY",
         "dom":-1,
         "dow":-1,
         "hour":3,
         "min":0,
         "name":"Every day at 03:00."
      },
      "vendor":null,
      "type":null,
      "model":null,
      "lastJobStatus":"UNKNOWN"
      "connections":[],
      "zoneId": "1"

   }
}
```

Error 4xx

Name	Type	Description
timestamp	Number	Current timestamp
code	Number	422
error	String	HTTP code message
message	String	Error message

Error response

```
HTTP/1.1 422 UNPROCESSABLE ENTITY
{
   "timestamp":1511876680885,
   "code":422,
   "error":"Unprocessable Entity",
   "message":"Device already exist"
}
```

Devices - update device

Update device address, description or schedule time.

Method: **PATCH**

```
http://example.unimus/api/v2/devices/:deviceId
```

CURL

```
curl -H "Accept: application/json" -H "Content-type: application/json" -H
"Authorization: Bearer <token>" -X PATCH
-d
'{"address":"<address>","description":"<description>","scheduleId":<schedu
leId>,"managed":<true|false>}'
"http://<example.unimus>/api/v2/devices/<deviceId>"
```

Parameter

Name	Type	Description
deviceId	Number	The ID of the device.
address	String	Device address. If **null** then no address update occurs
description	String	Device description. Description is always updated - should be provided if it should not be changed. If **null**, then description is removed
scheduleId	Number	Schedule id. If **null** then no schedule update occurs If **-1** then device will be backed up according to system default schedule

Success 200

Name	Type	Description
id	Number	The ID of the device
uuid	String	The UUID of the device (used in APIv3)
createTime	Number	Device creation time in seconds
address	String	Hostname, IPv4 or IPv6
description	String	Device description
managed	Boolean	Managed state
schedule	Object	Device schedule
vendor	String	Vendor
type	String	Type

model	String	Model
lastJobStatus	String	Status of the last job. Possible values: SUCCESSFUL, FAILED, UNKNOWN (no job ran yet or unmanaged)
connections	Array	Device connections
zoneId	String	The ID of the zone

Success response

```
HTTP/1.1 200 OK
{
   "data":{
      "id":1,
      "uuid":D-aaaacccc-bbee-4321-b42b-abc1234d101b"
      "createTime":1525101029,
      "address":"198.18.0.0",
      "description":null,
      "managed": true,
      "schedule":{
         "id":1,
         "createTime":1524564606,
         "periodicity":"DAILY",
         "dom":-1,
         "dow":-1,
         "hour":3,
         "min":0,
         "name":"Every day at 03:00."
      },
      "vendor":"MikroTik",
      "type":"RouterOS",
      "model":"Simulated-RouterOS",
      "lastJobStatus":"SUCCESSFUL"
      "connections":[

      ],
      "zoneId": "1"
   }
}
```

Error 4xx

Name	Type	Description
timestamp	Number	Current timestamp
code	Number	404
error	String	HTTP code message
message	String	Error message

Error response

```
HTTP/1.1 404 NOT FOUND
{
   "timestamp":1511880124270,
   "code":404,
   "error":"Not Found",
   "message":"Device not found"
}
```

Devices - delete device

Delete a single device from Unimus.

Method: **DELETE**

```
http://example.unimus/api/v2/devices/:deviceId
```

CURL

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>" -X
DELETE "http://<example.unimus>/api/v2/devices/<deviceId>"
```

Parameter

Name	Type	Description
deviceId	Number	The ID of the device to delete

Success 200

Name	Type	Description
success	String	A message stating that the deletion was successful

Success response

```
HTTP/1.1 200 OK
{
   "data":{
      "success":"true"
   }
}
```

Error 4xx

Name	Type	Description
timestamp	Number	Current timestamp

code	Number	404
error	String	HTTP code message
message	String	Error message

Error response

```
HTTP/1.1 404 NOT FOUND
{
   "timestamp":1511884051726,
   "code":404,
   "error":"Not Found",
   "message":"Device with id 102 not found"
}
```

Backups

Backups - get device backups

Get a list of all device backups. Backups are ordered descending by create time so the latest backup will always be at index 0 in the list. The list can be empty if the device has no backup yet.

Method: **GET**

```
http://example.unimus/api/v2/devices/:deviceId/backups?page=:pageIndex&size=:pageSize
```

Parameter

Name	Type	Description
deviceId	Number	The ID of the device
pageIndex	Number	Page index (OPTIONAL)
pageSize	Number	Page size (OPTIONAL)

Success 200

Name	Type	Description
id	Number	The ID of the backup
validSince	Number	First time this configuration retrieved from the device
validUntil	Number	Last time this configuration retrieved from the device. Will be null if the configuration was retrieved only once (only validSince will be set)
type	String	Backup type. Could be **TEXT** or **BINARY**
bytes	Array	Backup as byte array

Success response

```
HTTP/1.1 200 OK
{
   "data":[
      {
         "id":1,
         "validSince":1525117527,
         "validUntil":null,
         "type":"TEXT",

"bytes":"IyBTaW11bGF0ZWQgTWlrcm9UaWsgUm91dGVyT1Mgc3lzdGVtCiMgc29mdHdhcmUgaWQgPS"
      }
   ],
   "paginator":{
      "totalCount":1,
      "totalPages":1,
      "page":0,
      "size":20
   }
}
```

Error 4xx

Name	Type	Description
timestamp	Number	Current timestamp
code	Number	404
error	String	HTTP code message
message	String	Error message

Error response

```
HTTP/1.1 404 NOT FOUND
{
   "timestamp":1511886913012,
   "code":404,
   "error":"Not Found",
   "message":"Device with id 964 not found"
}
```

Backups - get device latest backup

Get device latest backup. Backup can be null if the device has no backups yet.

Method: **GET**

```
http://example.unimus/api/v2/devices/:deviceId/backups/latest
```

CURL

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>"
"http://<example.unimus>/api/v2/devices/<deviceId>/backups/latest"
```

Parameter

Name	Type	Description
deviceId	Number	The ID of the device

Success 200

Name	Type	Description
id	Number	The ID of the backup
validSince	Number	First time this configuration retrieved from the device
validUntil	Number	Last time this configuration retrieved from the device. Will be null if the configuration was retrieved only once (only validSince will be set)
type	String	Backup type. Could be **TEXT** or **BINARY**
bytes	Array	Backup as byte array

Success response


```
HTTP/1.1 200 OK
{
   "data":{
      "id":1,
      "validSince":1525117527,
      "validUntil":null,
      "type":"TEXT",

"bytes":"IyBTaW11bGF0ZWQgTWlrcm9UaWsgUm91dGVyT1Mgc3lzdGVtCiMgc29mdHdhcmUga
WQgPSBub25"
   }
}
```


Error 4xx

Name	Type	Description
timestamp	Number	Current timestamp
code	Number	404
error	String	HTTP code message
message	String	Error message

Error response

```
HTTP/1.1 404 NOT FOUND
{
   "timestamp":1511889424942,
   "code":404,
   "error":"Not Found",
   "message":"Device with id 12 not found"
}
```

Backups - get latest backups

Get a list of latest backup of devices with no particular order. Each backup is wrapped with device id and address.

Method: **GET**

```
http://example.unimus/api/v2/devices/backups/latest?page=:pageIndex&size=:
pageSize&id=:deviceIds
```

CURL

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>"
"http://<example.unimus>/api/v2/devices/backups/latest?page=0&size=20&id=<
deviceIds>"
```

Parameter

Name	Type	Description
pageIndex	Number	Page index (OPTIONAL)
pageSize	Number	Page size (OPTIONAL)
deviceIds	String	Comma separated device ids. If this parameter is not specified then backups of all devices will be returned according to pagination.

Success 200

Name	Type	Description
deviceId	Number	The ID of the device
address	String	Hostname, IPv4 or IPv6
backup	Object	Backup object

Success response

```
HTTP/1.1 200 OK
{
   "data":[
      {
         "deviceId":1,
         "address":"198.18.0.0",
         "backup":{
            "id":1,
            "validSince":1525117527,
            "validUntil":null,
            "type":"TEXT",

"bytes":"IyBTaW11bGF0ZWQgTWlrcm9UaWsgUm91dGVyT1Mgc3lzdGVtCiMgc29mdHdhcmUga
WQgPSBub25l"
         }
      }
   ],
   "paginator":{
      "totalCount":1,
      "totalPages":1,
      "page":0,
      "size":20
   }
}
```

Backups - create new backup

Create a new backup.

Method: **POST**

```
http://example.unimus/api/v2/devices/:deviceId/backups
```

CURL

```
curl -H "Accept: application/json" -H "Content-type: application/json" -H
"Authorization: Bearer <token>"
-d '{"backup":"<backup>","type":"<TEXT>"}'
"http://example.unimus/api/v2/devices/<deviceId>/backups"
```

Parameter

Name	Type	Description

backup	String	Backup content (Base64 encoded)
type	String	Possible values: **BINARY** - for binary content **TEXT** - for text content

Success 200

Name	Type	Description
success	String	A message stating that the creation was successful

Success response

```
HTTP/1.1 200 OK
{
   "data":{
      "success":"true"
   }
}
```

Error 4xx

Name	Type	Description
timestamp	Number	Current timestamp
code	Number	404
error	String	HTTP code message
message	String	Error message

Error response

```
HTTP/1.1 404 NOT FOUND
{
   "timestamp":1514894056726,
   "code":404,
   "error":"Not Found",
   "message":"Device with id 102 not found"
}
```

Diff

Diff - get devices with different backups

Get a list of devices that has different backups in specified time range. If no backups has been changed for any device then empty array is returned with HTTP code 200.

NOTE: In the following example **since** is 100 and **until** is 200 for easier understand how this endpoint works.

Method: **GET**

```
http://example.unimus/api/v2/devices/findByChangedBackup?page=:pageIndex&s
ize=:pageSize&since=:since&until=:until
```

CURL

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>"
"http://<example.unimus>/api/v2/devices/findByChangedBackup?page=0&size=20
&since=100&until=200"
```

Parameter

Name	Type	Description
pageIndex	Number	Page index (OPTIONAL)
pageSize	Number	Page size (OPTIONAL)
since	Number	Start of time range in seconds (OPTIONAL) (DEFAULT = 0)
until	Number	End of time range in seconds (OPTIONAL) (DEFAULT = time of the request)

Success 200

Name	Type	Description
id	Number	The ID of the device
createTime	Number	Device creation time in seconds
address	String	Hostname, IPv4 or IPv6
description	String	Device description
vendor	String	Vendor
type	String	Type
model	String	Model
lastJobStatus	String	Status of the last job. Possible values: SUCCESSFUL, FAILED, UNKNOWN (no job ran yet)
backups	Array	List of different device backups
zoneId	String	The ID of the zone

Success response


```
{
   "data":[
      {
         "id":1,
         "uuid":D-aaaacccc-bbee-4321-b42b-abc1234d101b"
         "createTime":1525101029,
         "address":"198.18.0.0",
         "description":null,
         "managed": true,
         "vendor":"MikroTik",
         "type":"RouterOS",
         "model":"model",
         "lastJobStatus":"SUCCESSFUL"
         "backups":[
            {
               "id":1,
               "validSince":80,
               "validUntil":101
            },
            {
               "id":2,
               "validSince":120,
               "validUntil":145
            },
            {
               "id":3,
               "validSince":150,
               "validUntil":180
            },
            {
               "id":4,
               "validSince":181,
               "validUntil":260
            }
         ],
         "zoneId": "1"
      }
   ],
   "paginator":{
      "totalCount":1,
      "totalPages":1,
      "page":0,
      "size":20
   }
}
```


Diff - get diff

Get a difference between original and revised backup. Endpoint support making difference between backups from different devices.

Method: **GET**

```
http://example.unimus/api/v2/backups/diff?origId=:origId&revId=:revId
```

CURL

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>"
"http://<example.unimus>/api/v2/backups/diff?origId=1&revId=2"
```

Parameter

Name	Type	Description
origId	Number	ID of the backup that will be considered as original
revId	Number	ID of the backup that will be considered as revised

Success 200

Name	Type	Description
origDeviceInfo	Object	Contains information about device with original backup
revDeviceInfo	Object	Contains information about device with revised backup
lineGroups	Array	Contains array of group of lines. Every group has one of the following types: COMMON, CHANGED, INSERTED, DELETED

Success response - complete JSON


```
{
   "data":{
      "origDeviceInfo":{
         "id":1,
         "createTime":123456789,
         "address":"10.0.0.1",
         "description":"some dscr",
         "vendor":"MikroTik",
         "type":"RouterOS",
         "model":"mkt-model",
         "lastJobStatus":"SUCCESSFUL"
         "zoneId": "1"
      },
      "revDeviceInfo":{
         "id":2,
         "createTime":123456789,
         "address":"10.1.1.1",
         "description":"another dscr",
         "vendor":"Cisco",
         "type":"IOS switch",
         "model":"cisco-model",
         "lastJobStatus":"FAILED"
```

```
      "zoneId": "1"
   },
   "lineGroups":[
      {
         "type":"COMMON",
         "originalLines":[
            {
               "number":1,
               "text":"common line 1"
            },
            {
               "number":2,
               "text":"common line 2"
            }
         ],
         "revisedLines":[
            {
               "number":1,
               "text":"common line 1"
            },
            {
               "number":2,
               "text":"common line 2"
            }
         ]
      },
      {
         "type":"CHANGED",
         "originalLines":[
            {
               "number":3,
               "text":"changed line - asd"
            },
            {
               "number":4,
               "text":"changed line - asd"
            },
            {
               "number":5,
               "text":"changed line - asd"
            }
         ],
         "revisedLines":[
            {
               "number":3,
               "text":"changed line - xyz"
            },
            {
               "number":4,
               "text":"changed line - xyz"
            },
            {
               "number":-1,
```

```
            "text":null
         }
      ]
   },
   {
      "type":"COMMON",
      "originalLines":[
         {
            "number":6,
            "text":"common line"
         }
      ],
      "revisedLines":[
         {
            "number":5,
            "text":"common line"
         }
      ]
   },
   {
      "type":"INSERTED",
      "originalLines":[

      ],
      "revisedLines":[
         {
            "number":6,
            "text":"inserted line"
         }
      ]
   },
   {
      "type":"COMMON",
      "originalLines":[
         {
            "number":7,
            "text":"common line"
         }
      ],
      "revisedLines":[
         {
            "number":7,
            "text":"common line"
         }
      ]
   },
   {
      "type":"DELETED",
      "originalLines":[
         {
            "number":8,
            "text":"deleted line"
         }
```

```
    ],
    "revisedLines":[

    ]
}
```

```
        ]
    }
}
```

Running tasks

Run job - discover device

Trigger discovery job with all devices in the system. If u want to narrow down devices included in job then specify their IDs in request parameter.

Method: **PATCH**

```
http://example.unimus/api/v2/jobs/discovery?id=:deviceIds
```

CURL

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>" -X
PATCH "http://<example.unimus>/api/v2/jobs/discovery?id=<deviceIds>"
```

Parameter

Name	Type	Description
deviceIds	String	Comma separated device ids to run discovery on

Success 202

Name	Type	Description
accepted	Number	Number of started discoveries
refused	Number	Number of refused discoveries. Discovery or backup currently running
unManaged	Number	Number of un-managed devices

Success response

```
HTTP/1.1 202 ACCEPTED
{
   "data":{
      "accepted":12,
      "refused":0,
      "unManaged":0
   }
}
```

Error 4xx

Name	Type	Description
timestamp	Number	Current timestamp
code	Number	404
error	String	HTTP code message
message	String	Error message

Error response

```
HTTP/1.1 403 NOT FOUND
{
   "timestamp":1511897481896,
   "code":404,
   "error":"Not Found",
   "message":"Devices not found [3]"
}
```

Run job - discover un-discovered devices

Trigger discovery job for all undiscovered devices.

Method: **PATCH**

```
http://example.unimus/api/v2/jobs/discovery/undiscovered
```

CURL

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>" -X
PATCH "http://<example.unimus>/api/v2/jobs/discovery/undiscovered"
```

Success 202

Name	Type	Description
accepted	Number	Number of started discoveries
refused	Number	Number of refused discoveries. Discovery or backup currently running
unManaged	Number	Number of un-managed devices

Success response

```
HTTP/1.1 202 ACCEPTED
{
   "data":{
      "accepted":12,
      "refused":0,
      "unManaged":0
   }
}
```

Run job - backup device

Trigger backup job with all devices in the system. If u want to narrow down devices included in job then specify their IDs in request parameter.

Method: **PATCH**

```
http://example.unimus/api/v2/jobs/backup?id=:deviceIds
```

CURL

```
curl -H "Accept: application/json" -H "Authorization: Bearer <token>" -X
PATCH "http://<example.unimus>/api/v2/jobs/backup?id=<deviceIds>"
```

Parameter

Name	Type	Description
deviceIds	String	Comma separated device ids to run backup on

Success 202

Name	Type	Description
accepted	Number	Number of started backups
refused	Number	Number of refused backups
sentForDiscovery	Number	Un-discovered devices sent for discovery
unManaged	Number	Number of un-managed devices

Success response

```
HTTP/1.1 202 ACCEPTED
{
   "data":{
      "accepted":0,
      "refused":2,
      "sentForDiscovery":0,
      "unManaged":0
   }
}
```

Error 4xx

Name	Type	Description
timestamp	Number	Current timestamp
code	Number	404
error	String	HTTP code message
message	String	Error message

Error response

```
HTTP/1.1 403 NOT FOUND
{
   "timestamp":1511899365179,
   "code":404,
   "error":"Not Found",
   "message":"Devices not found [16, 23, 15]"
}
```