APIv2

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API v2 Overview

APIv2 is ProVision's currently supported RESTful API version. APIv2 adds new endpoints and upgraded functionality over APIv1, through use of HTTPS authentication, additional HTTP methods (GET, PUT, POST, etc.), and JSON payloads.

To test APIv2 queries, you may:

1. Use a browser extension REST client, such as Postman
2. Access ProVision's APIv2 Swagger documentation from your ProVision instance (*instance*/dev/swagger), which provides the ability to test inputs and responses using your ProVision instance data.

APIv2 Swagger Documentation

Accessing Swagger

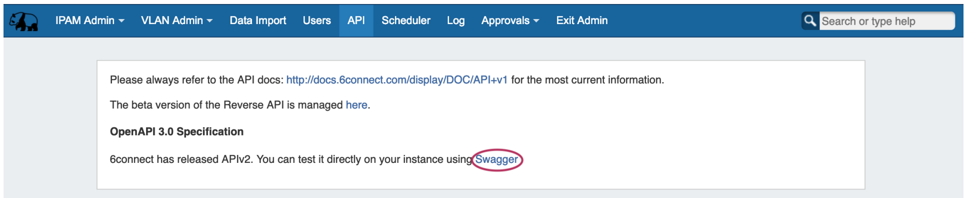
Public APIv2 documentation is located at https://cloud.6connect.com/APIv2/.

APIv2 documentation includes:

- IPAM API
  Includes actions for LIRs, IP aggregate and block management, VLAN, IP Rules, and SWIP.
- Resource API
  Includes actions for managing the ProVision Resource System.
  The resource API provides CRUD endpoints for resources, resource attributes, resource attachments and resource backups.
- DNS API
  ProVision DNS API allows you to manage DNS Zones, Records, Servers, Groups and ACLS.
- Users API
  Includes actions for ProVision Users, permissions and actions.
- Usergroups API
  Includes actions for ProVision Groups, permissions and actions
- Scheduler API
  The API Allows you to easily schedule tasks.
- API Composer Platform
  API Composer Platform (ACP) is an additional module in ProVision to help automate frequently used combinations of calls.

Existing customers may access APIv2 documentation from your ProVision instance (user must have Admin permissions):

1. Log into your ProVision instance.
2. Go to the Admin area of ProVision and click on the **API** Tab.
3. Under "OpenAPI 3.0 Specification" click the Swagger link provided.



Please always refer to the API docs: http://docs.6connect.com/display/DOC/API+v1 for the most current information.

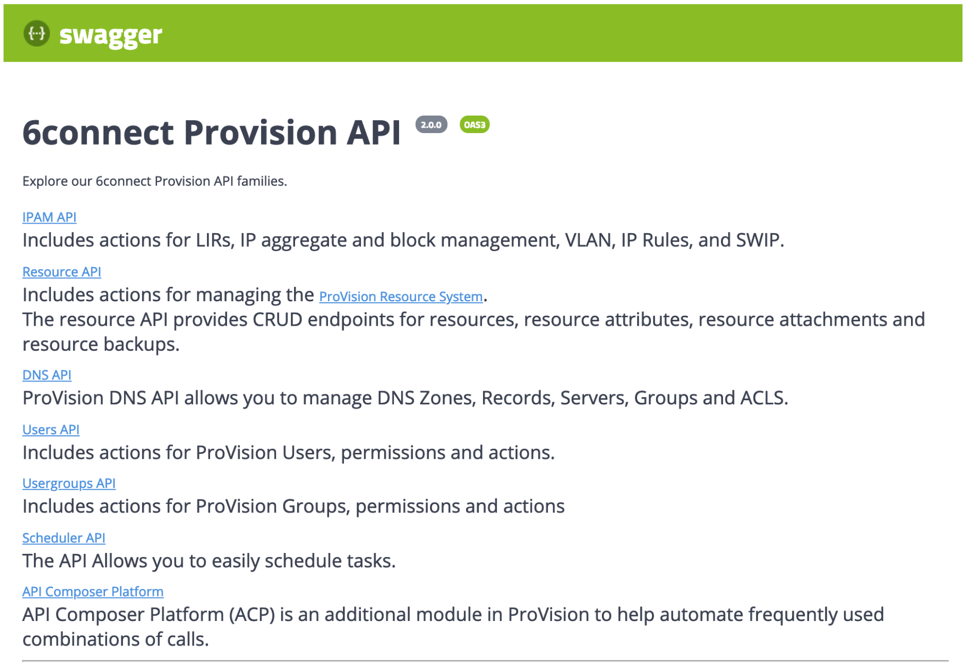
The beta version of the Reverse API is managed here.

OpenAPI 3.0 Specification

6connect has released APIv2. You can test it directly on your instance using Swagger

Viewing APIv2 Information

1. On the 6connect Provision API Swagger home page, click on the name link for the API family that you wish to browse (IPAM, Resource, DNS, etc).



6connect Provision API 2.0.0 OAS3

Explore our 6connect Provision API families.

IPAM API
Includes actions for LIRs, IP aggregate and block management, VLAN, IP Rules, and SWIP.

Resource API
Includes actions for managing the ProVision Resource System.
The resource API provides CRUD endpoints for resources, resource attributes, resource attachments and resource backups.

DNS API
ProVision DNS API allows you to manage DNS Zones, Records, Servers, Groups and ACLS.

Users API
Includes actions for ProVision Users, permissions and actions.

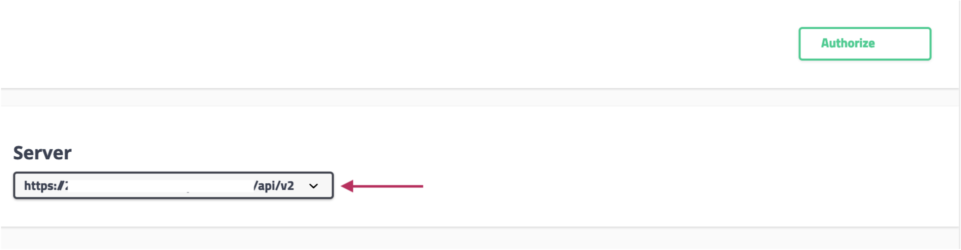
Usergroups API
Includes actions for ProVision Groups, permissions and actions

Scheduler API
The API Allows you to easily schedule tasks.

API Composer Platform
API Composer Platform (ACP) is an additional module in ProVision to help automate frequently used combinations of calls.

2. Once on an API Family page, verify that the displayed server name is correct for your instance/local server.

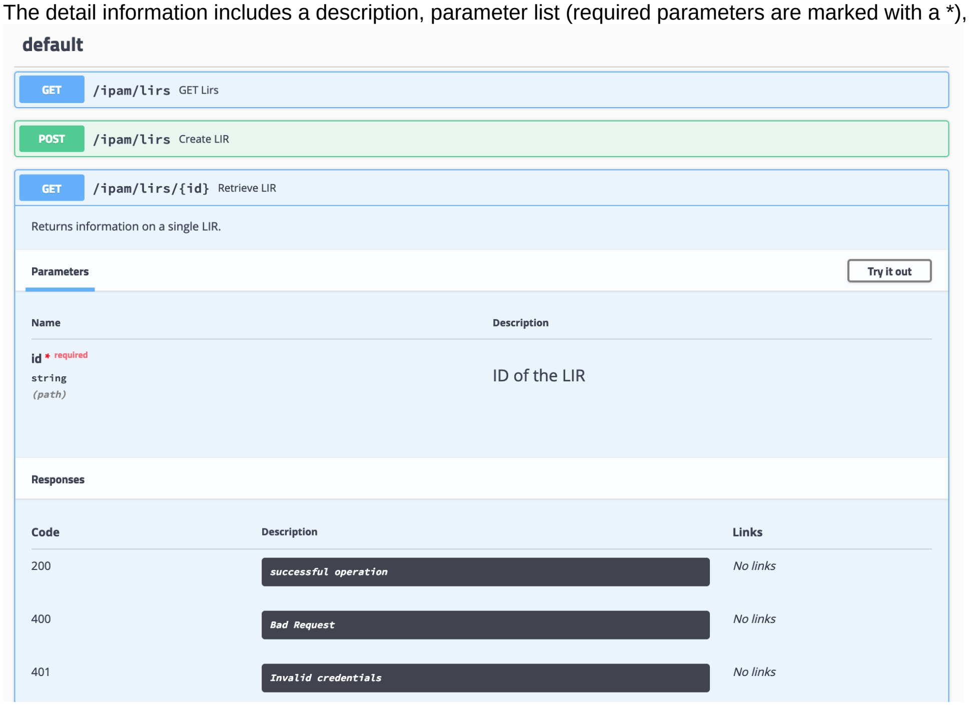
   In most situations, only one ProVision instance/server will be displayed, with authentication already provided from your ProVision login. If your ProVision session has ended, or the server changed, you may need to re-provide ProVision credentials by clicking the "Authorize" button.



Server
https:// /api/v2

3. Scroll further down the page and begin reviewing available APIv2 calls and details. Clicking on any call will expand it to view parameter details - you can even test call responses (using your instance data) by clicking "Try it Out"!

The detail information includes a description, parameter list (required parameters are marked with a *), and response information



default

GET /ipam/lirs GET Lirs

POST /ipam/lirs Create LIR

GET /ipam/lirs/{id} Retrieve LIR

Returns information on a single LIR.

Parameters

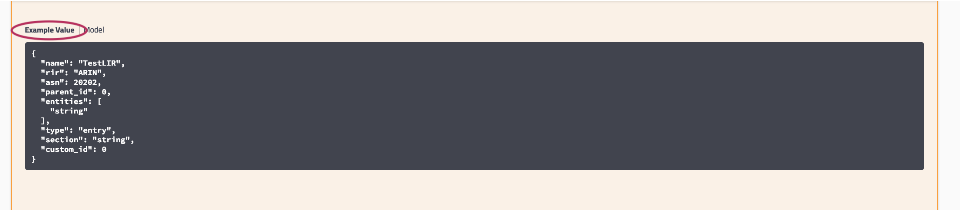
Name	Description
id * required string *(path)*	ID of the LIR

Responses

Code	Description	Links
200	*successful operation*	*No links*
400	*Bad Request*	*No links*
401	*Invalid credentials*	*No links*

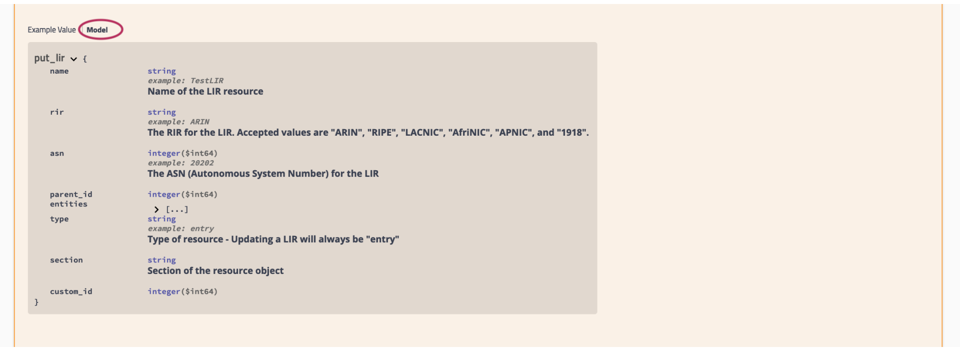
4. Some calls that involve a JSON request body payload (PUT, PATCH, etc) will display "Example Value" and "Model" information under a "Request Body" section - additional parameter descriptions may be displayed under "Model" Information.

   Clicking on "Example Value" will show an example of a JSON request body for that call.



```
{
  "name": "TestLIR",
  "rir": "ARIN",
  "asn": 20202,
  "parent_id": 0,
  "entities": [
    "string"
  ],
  "type": "entry",
  "section": "string",
  "custom_id": 0
}
```

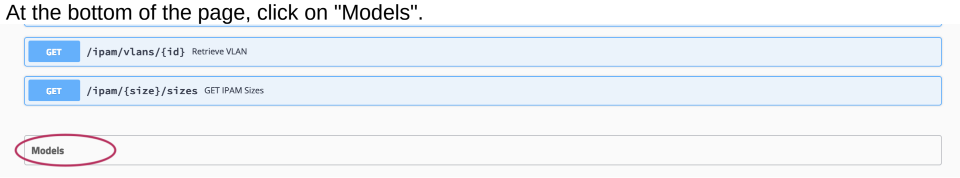
   Clicking on "Model" will display details and descriptions of the request body parameters, if available.



```
put_lir ⌄ {
   name                 string
                        example: TestLIR
                        Name of the LIR resource

   rir                  string
                        example: ARIN
                        The RIR for the LIR. Accepted values are "ARIN", "RIPE", "LACNIC", "AfriNIC", "APNIC", and "1918".

   asn                  integer($int64)
                        example: 20202
                        The ASN (Autonomous System Number) for the LIR

   parent_id            integer($int64)
   entities              > [...]
   type                 string
                        example: entry
                        Type of resource - Updating a LIR will always be "entry"

   section              string
                        Section of the resource object

   custom_id            integer($int64)
}
```

5. Additional "Model" examples are available at the bottom of the page with additional descriptive information.

   At the bottom of the page, click on "Models".

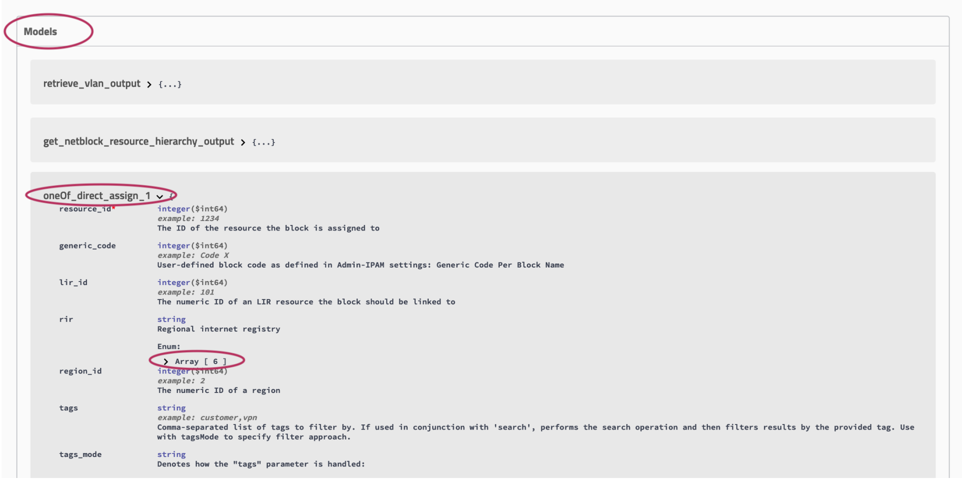


GET /ipam/vlans/{id} Retrieve VLAN

GET /ipam/{size}/sizes GET IPAM Sizes

Then, click on the "Model" you

wish to view. Some models may contain additional information that you can expand to view, such as valid values for a parameter. In the example below, the circled "array" will display valid RIR values.



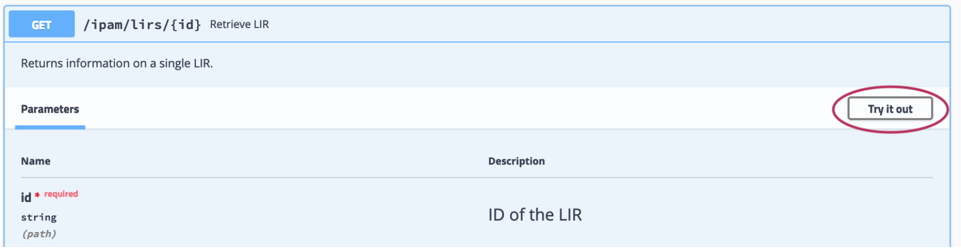
Models

```
retrieve_vlan_output > {...}

get_netblock_resource_hierarchy_output > {...}

oneOf_direct_assign_1 v {
    resource_id*       integer($int64)
                       example: 1234
                       The ID of the resource the block is assigned to

    generic_code       integer($int64)
                       example: Code X
                       User-defined block code as defined in Admin-IPAM settings: Generic Code Per Block Name

    lir_id             integer($int64)
                       example: 101
                       The numeric ID of an LIR resource the block should be linked to

    rir                string
                       Regional internet registry

                       Enum:
                        > Array [ 6 ]
    region_id          integer($int64)
                       example: 2
                       The numeric ID of a region

    tags               string
                       example: customer,vpn
                       Comma-separated list of tags to filter by. If used in conjunction with 'search', performs the search operation and then filters results by the provided tag. Use
                       with tagsMode to specify filter approach.

    tags_mode          string
                       Denotes how the "tags" parameter is handled:
```

Testing Endpoints

You may test queries in Swagger by using the "Try it out" button for any call.

1. Navigate to the call that you want to try out.
2. Expand the call to view its details, then click the "Try it out" button.



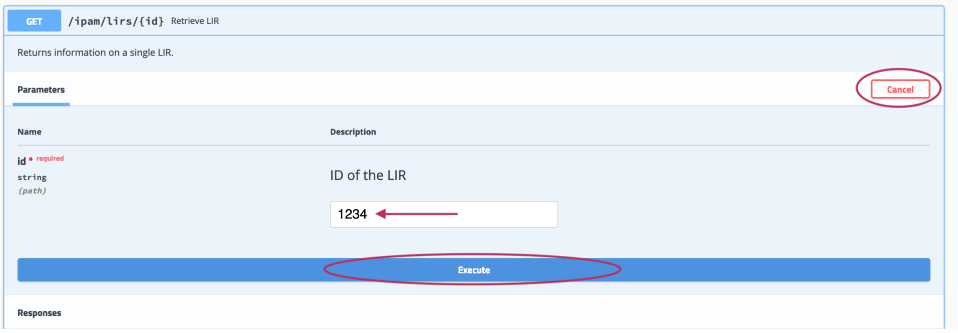
GET /ipam/lirs/{id} Retrieve LIR

Returns information on a single LIR.

Parameters

Name	Description
id * required string *(path)*	ID of the LIR

3. Input the desired parameters to test, and click "Execute".



GET /ipam/lirs/{id} Retrieve LIR

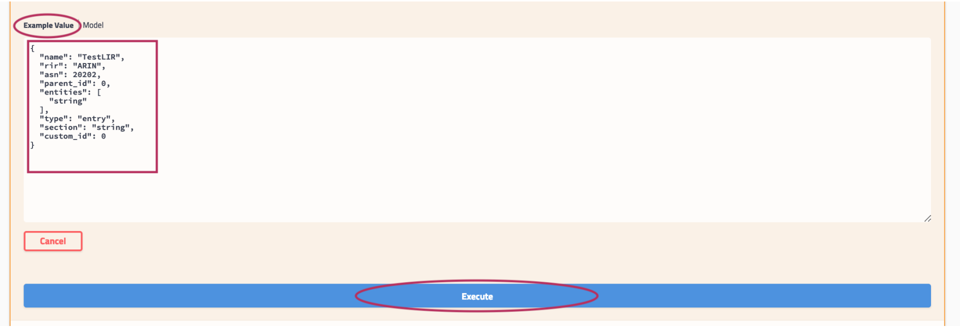
Returns information on a single LIR.

Parameters

Name	Description
id * required string *(path)*	ID of the LIR 1234

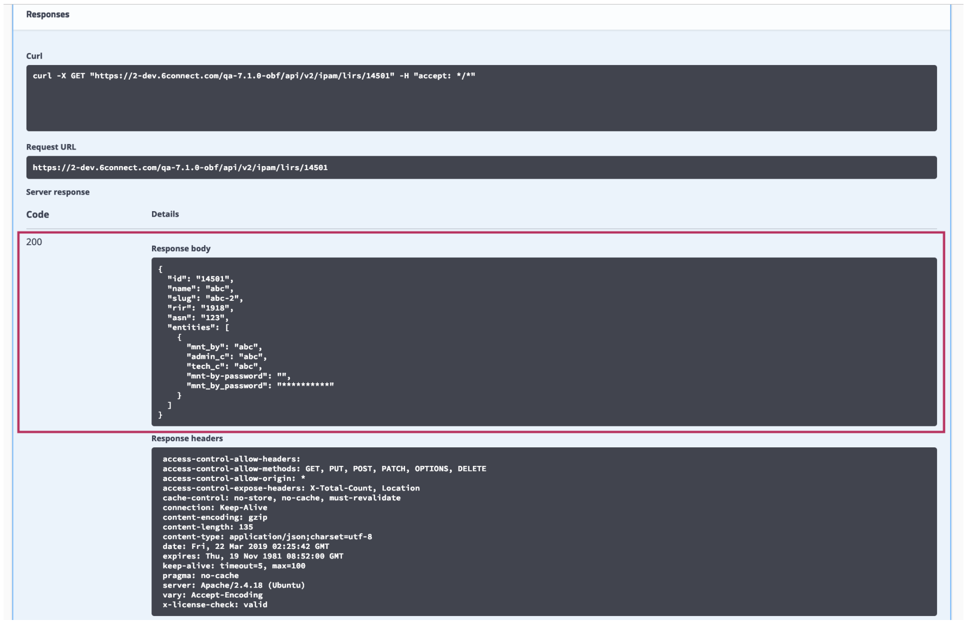
Responses

If the call is a method that uses a JSON request body, you will have the option to edit the body text in the "Example Value" box - when done, click "Execute".



```
{
  "name": "TestLIR",
  "rir": "ARIN",
  "asn": 20202,
  "parent_id": 0,
  "entities": [
    "string"
  ],
  "type": "entry",
  "section": "string",
  "custom_id": 0
}
```

4. The example response will display under "Responses" after being executed.



Curl

```
curl -X GET "https://2-dev.6connect.com/qa-7.1.0-obf/api/v2/ipam/lirs/14501" -H "accept: */*"
```

Request URL

```
https://2-dev.6connect.com/qa-7.1.0-obf/api/v2/ipam/lirs/14501
```

Server response

Code	Details
200	Response body

```
{
  "id": "14501",
  "name": "abc",
  "slug": "abc-2",
  "rir": "1918",
  "asn": "123",
  "entities": [
    {
      "mnt_by": "abc",
      "admin_c": "abc",
      "tech_c": "abc",
      "mnt-by-password": "",
      "mnt_by_password": "***********"
    }
  ]
}
```

Response headers

```
access-control-allow-headers:
access-control-allow-methods: GET, PUT, POST, PATCH, OPTIONS, DELETE
access-control-allow-origin: *
access-control-expose-headers: X-Total-Count, Location
cache-control: no-store, no-cache, must-revalidate
connection: Keep-Alive
content-encoding: gzip
content-length: 135
content-type: application/json;charset=utf-8
date: Fri, 22 Mar 2019 02:25:42 GMT
expires: Thu, 19 Nov 1981 08:52:00 GMT
keep-alive: timeout=5, max=100
pragma: no-cache
server: Apache/2.4.18 (Ubuntu)
vary: Accept-Encoding
x-license-check: valid
```